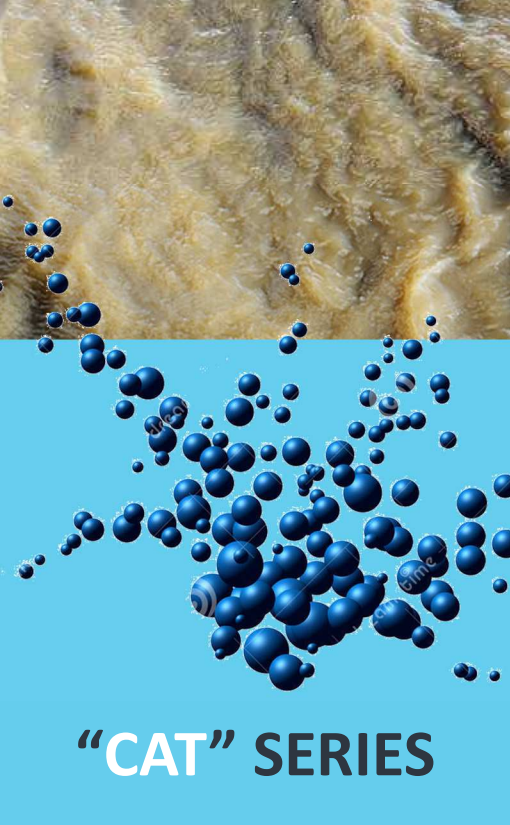


ATTRITION CELLS



“CAT” SERIES



DECCA IMPIANTI

TECHNICAL FEATURES

POWER SUPPLY:
FROM 11 UP TO 66 kW

EFFICIENT:
INTENSIVE TREATMENT
WITH BEST RESULTS
FOR SLURRY WITH
CONCENTRATION
OF SOLIDS
BETWEEN 60-80%

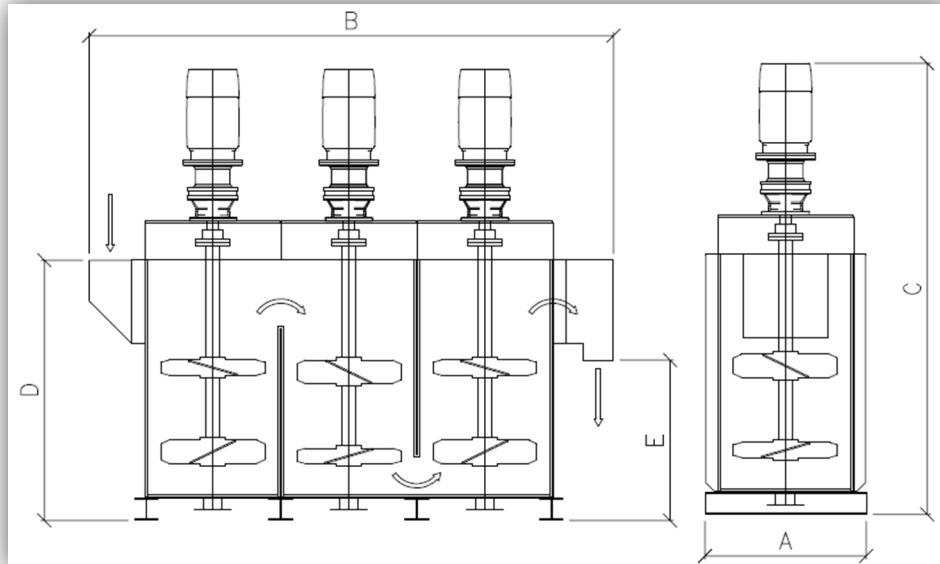
ECOLOGICAL:
THEY REMOVE
POLLUTANTS
THANKS TO
FRICTION STRENGTH

ROBUST:
THEIR INSIDE ARE
ENTIRELY LINED WITH
WEAR-RESISTANT
MATERIALS

THE IDEAL SOLUTION FOR REMOVING
MECHANICALLY POLLUTANTS FROM THE
SURFACES OF SANDS IN THE SLURRY



ATTRITION CELLS (SCRUBBERS)



As part of the soil-washing process, the Attrition Cells (scrubbers) "Decca Impianti" provide an effective removal of pollutants on the surface of the sand contained in the contaminated slurry by the action of scrubbing (friction) between particles generated by agitators present in the inside of the machine with consequent production of fine containing impurities. The intense collisions between particles of solid material produced by the constant movement in opposite flows of the propellers or by a real turbulence of the slurry, favor the detachment of all pollutants from the surface of the sands without, however, reduce the volume of fine particles. For best results, the ideal concentration of solids in the mixture must be around 60-80%. Depending on the contact times necessary for the achievement of an optimal separation degree of the pollutants, the machine is supplied with two or more cells (boxes) since, for the same total volume, a greater number of compartments ensures greater efficiency. The individual cells are made of steel and are coated internally with wear-resistant panels of different typology easily replaceable. The agitators can be provided with replaceable wear-resistant blades or with blades coated with vulcanized natural rubber in the presence of particularly abrasive materials.

The attrition cells usually find their ideal location before the hydrocyclonic process of the slurry and their applications are as follows:

- for contaminated sites (soil-washing): the soil particles are washed in order to disgregate the contaminants from their surface
- for the pre-flotation treatment of the slurry: the washing of the particles before the flotation process guarantees an increase in the selectivity and a reduction of consumption of reagents
- for the mechanical preparation of minerals
- for the separation of grains of sand from minerals and cement purposes
- for the removal of clay and iron stains from silica sand intended for the glass industry
- for the break-up of balls of clay and bituminous material
- for the recovery of valuable minerals which may be present on the sand grains
- for intensive conditioning
- for the salt industry (refining)
- for lime slaking

	MODEL*	VOL. m ³	KW	A [mm]	B [mm]	C [mm]	D [mm]	E [mm]
2 CELLS	100/2	0,20	5,5X2	600	1420	2000	1150	650
	220/2	0,44	7,5X2	790	1900	2100	1200	700
	270/2	0,54	9,2X2	760	1840	2300	1350	800
	650/2	1,30	15X2	960	2390	2690	1550	950
	1300/2	2,60	22X2	1170	2920	3060	1750	1050
3 CELLS	100/3	0,30	5,5X3	600	1880	2000	1150	650
	220/3	0,66	7,5X3	790	2540	2100	1200	700
	270/3	0,81	9,2X3	760	2450	2300	1350	800
	650/3	1,95	15X3	960	3200	2690	1550	950
	1300/3	3,90	22X3	1170	3930	3060	1750	1050

* These models are standards that can be adapted and modified according to specific project requirements.