

MAGNETIZER / DEMAGNETIZER HEAD

For tubes ENDS inspection.

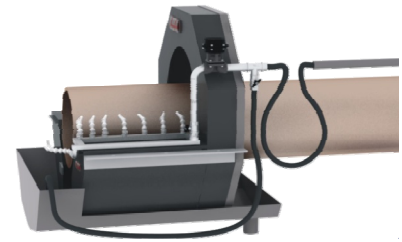
The objective of the **INSPECTION HEAD** is to detect internal as well as external cracks and superficial and sub superficial cracks in the **ends of the tubes** (smooth, threaded or underline).

Is composed by coils strategically position to achieve a **magnetization in all the tubes directions**.

The equipment is design to apply multidirectional Magnetic fields and longitudinal and transversal separately.

Once the inspection is over, the equipment allows the demagnetization leaving a remnant inside the 3 Gauss even in **tubes of big thickness** (greater than 25mm).

This new model has a **Hall Effect sensor** inside the head with the objective of measure the **residual magnetic field** of the tube, allowing the demagnetization in only 100ms when is use in multidirectional mode.



MULTIDIRECTIONAL

The operation mode is performance as follows:

1. Magnetize with longitudinal field (during 1 sec).
2. Demagnetize (in 100ms).
3. Magnetize with Transversal field (during 1 sec).

This new magnetizing system is far **more efficient** because the balance between the longitudinal and transversal fields is NOT necessary.

This means that you can arbitrary configure the longitudinal power, and when you magnetize with a transversal field, the tube is already demagnetize and is not necessary to power up the transversal to break the longitudinal field.

STANDARD MODELS	Aproximate measures (mm.)				TUBES RANGE	
	A	B	C	D	Ø	(Inch.)
CA- PREMIUM-MLT-IED-290CR	1110	1220	784	734	290	2 ³ / ₈ " - 7"
CA- PREMIUM MTL-IED-330CR	1110	1220	810	830	330	2 ³ / ₈ " - 9"
CA- PREMIUM MTL-IED-440CR	1110	1220	900	893	420	2 ³ / ₈ "-13 ⁵ / ₈ "
CA- PREMIUM MTL-IED-640CR	1210	925	1177	1158	640	6" - 20"

