Rolling Controls

KRAIS Tube Expander

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TES Mini 2

Our TES Mini 2 is a semi automatic torque controller for the precise expansion of ferrous, non-ferrous and alloy tubing. It is ideal for Condenser/Chillers, Heat Exchangers and Boilers. It's one of our most popular tools because of its accuracy, speed and ease of use.

The second generation TES Mini has been designed with direct input from our customers and utilizes the latest electronic components. As a direct result of these new technologies, gains in precision and energy efficiency have been realized from an already accurate system ($\pm 1\%$). The redesigned control panel is simpler to navigate and incorporates a built in card reader for detailed work reports.

Main TES Mini 2 features:

- I microprocessor controlled tube expansion;
- I consistent torque control over 1 or 10,000 expansions;
- I controls torque during long series of tube expanding;
-) programmable torque shut-off value and high/low torque limits;
- I reverse button for retracting expanders from the tubes;
- programmable timers for; cycle start, reverse pause, end of cycle, and a suppression timer for low torque value settings;
-) CE Certified design.

Usage of our TES Mini 2 Controller, which is durable and easy to maintain, ensures that all tubes are expanded to the same torque. With the proper, easy to use set up, you can avoid over rolling which damages joint integrity and the distortion of tube sheet ligaments.

TES Mini 2 functions:

- > speed adjustment or limit (depends on motor type)
-) torque adjustment
- **)** suppression time adjustments
-) pause time adjustments
-) softstart delay
- I report generation (up to 9999 cycles)
- works with 110 V and 230 V









Weight 2,0 kg (2,4lbs)



TES Mini 2 Motors

TES Mini in conjunction with one of our tube rolling motors will improve productivity and safety, while delivering unmatched performance and durability.

		WEIGHT		MOTOR POWER	FREE SPEED	MAX RPM UNDER LOAD	TORQUE				TUBE	
							[NM]		[FT-LBS]		CAPACITY*	
		[KG]	[LBS]				MIN	MAX	MIN	MAX	MIN	MAX
	HT-0	1,2	2,4	460 W	2300	1700	0,70	10,00	0,50	7,40	1/4	1/2
	ES-0	3,2	7,0	1150 W	680	450	12,00	45,00	8,85	33,00	5/8	1 1/4
	ES-2	3,2	7,0	1150 W	650 1200	430 760	8,00	43,00	6,00	32,00	5/8	1 1/8
	DU-0	2,0	4,4	650 W	628 2100	450 1550	3,00	42,00	2,21	30,50	5/8	1
	DU-1	8,6	17,6	2000 W	150 250 445 720	120 219 380 650	12,00	250,00	8,85	185,00	3/4	2
	K90-E-90	10,0	22,0	1150 W	90	81	70,00	510,00	51,63	376,16	2	5
	K90-E-190	10,0	22,0	1150 W	142	129	50,00	260,00	36,88	191,77	1 1/2	3
	K90-E-280	10,0	22,0	1150 W	274	250	40,00	190,00	29,50	140,14	1 1/4	2 1/2

^{*} Tube Capacisty depends on material and technical condition of tube

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