

Cleveland-Kidder® Tension Transducer (Load Cell)

Load Cell Style	Web Width		Tension Roller Shaft		* Load Ratings			**Mounting		
	Used for Wide Webs (Over 20 in.)	Used for Narrow Webs (Under 20 in.)	For use with Stationary (Dead) Shafts	For use with Rotating (Live) Shafts	Min. Load Rating Offered (LB.)	Max. Load Rating Offered (LB.)	Typical Overload Rating (%)	Inside Machine Frame (Stud or Flange Mount)	Outside Machine Frame	Above Machine Frame (Pillow Block Mount)
Cartridge-Style	■		■		25	1,000	150 - 300%	■		■
Slim-Cell	■		■	■	10	1,000	500 - 1,000%	■	■	■
UPB Washdown Duty	■			■	25	30,000	500%			■
Cantilevered CLT		■	■		0.1	500	150 - 300%	■		■
Cantilevered CR		■	■		5	150	150 - 300%	■		■

Figure 22
Standard Features for all Transducers:

- Typical Tension Range- 20/1 to 30/1 (Based on Proper Load Cell Sizing)
- Temperature Range -0-200 degrees F
- Load Cells can be oriented to measure the tension force in any direction
- UL certified for Intrinsically Safe applications
- CE label

Selection Guide

Special Environments			Key Considerations			
Washdown-Duty, Corrosive and Chemical Resisting	For use in Vacuums (Modified)	For use in High Temperatures (Modified)	Why would I Select this Transducer over the Others?	Typical Applications	Price Comparison *Low End ** Mid Range ***High End	
			Industry Standard, Variety of Mounting Styles, Good Value	Flexographic Presses, Extruder Lines, Laminators and Coaters	*	
○	■	■	Slim Profile-Advanced Design, For use where Mounting Space is Tight - Reduces Machine Frame Width, Outside Frame Mounting Available, Light Tensions, Extended Tension Range, Retrofits, Special Environments	State of the Art Equipment for Printing , Flexible Packaging, Converting, Coating/Laminating where wide tension ranges and high performance are required. Very good for plastic and aluminum films, foils, and laminates	**	
	■	■	For use with Pillow Block Bearing, Low Height Profile, High Tensions, High Temp., Special Environments	Paper Mills, Steel Mills, Textiles, Tire Cord Machines, Dryer Drums, Paperboard, Machine Retrofits	***	
			For use with Cantilevered Rollers-Unique design eliminates affects of shifting cantilevered load, Pulleys, Both Extremely Light Tensions and High Tensions	Label Presses, Very good for use on equipment producing multi-laminate materials used in Hygienic & Medical Products, Light Wire and Heavy Cable	**	
			For use with Cantilevered Pulleys, Good Value	Wire and Cable, Ribbon, Textiles	*	

* Transducers are offered in variety of load ratings. They must be properly sized for the tension load. Refer to the appropriate transducer data sheet for sizing formulas and available load ratings.

** Mounting kits are required for some mounting configurations. Refer to the appropriate transducer data sheet.

Figure 22