

# NUWEIGH

## MULTI IDLER SR-1902 BELT WEIGHER

OVER 50 YEARS  
COMBINED EXPERIENCE  
WITH SUPPLY & SERVICE  
OF BELT WEIGHERS

Fully floating weigh carriage for simple calibration.

Cost effective modular design.

Highly accurate, proven and rugged design.

Two, four and six idler configurations.

Integrated test weight receptors or optional lever arm operated stored in place test weights.



### Application

Nuweigh Multi-Idler Belt Weighers are used for continuous acquisition of flow rates and totalized amounts. They are especially designed for integration into belt conveyors and enable accuracies of up to  $\pm 0.25\%$ .

They can be employed for a whole variety of tasks:

- Throughput and consumption measurement in production plants.
- Accountability of stored and retrieved amounts.
- Maximum or Minimum load limit alarms.
- Batching, in loading stations.
- Pre-feeder control.

The rugged design ensures a high degree of reliability and availability.

### Construction

The standard belt weigher comprises:

- Fully floating weighing platform.
- Overload-protected load cell(s) of IP65 construction.
- IP65 Cable junction box.
- IP65 Tail drum speed sensor.
- Mounting and adjusting bolts.

Options include:

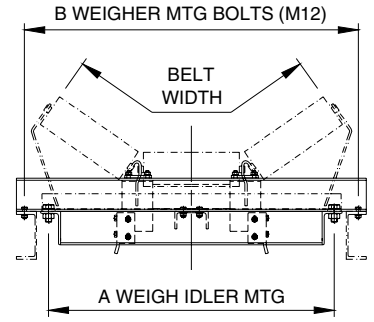
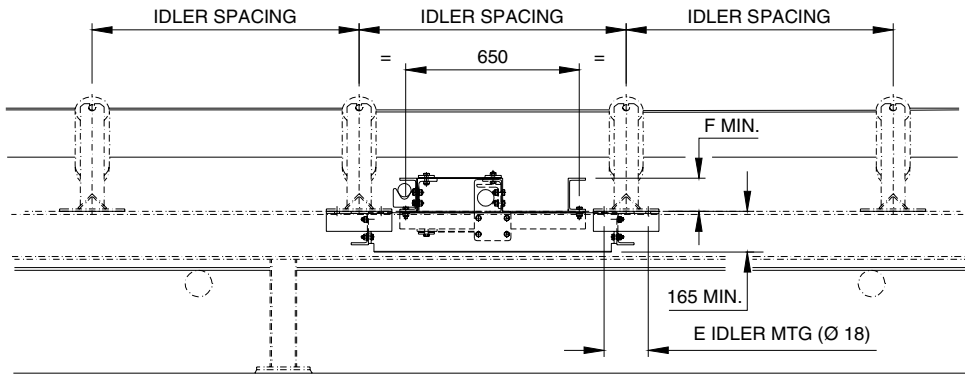
- Weigh quality idler sets with screw adjustment (for precise idler alignment,  $\pm 0.2\text{mm}$ ).
- IP65 Cable junction box in 316 stainless steel and optional speed sensor(s).
- Friction Jockey Wheel running on return belt.

### Operating Principle

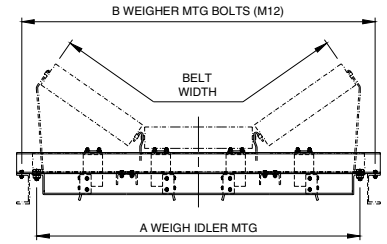
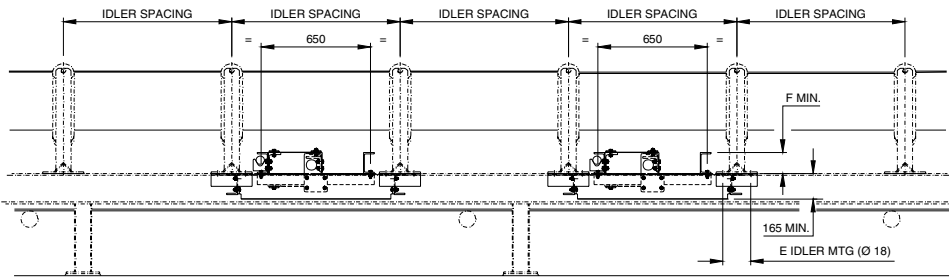
High quality load cells measure the load on the weigh length while a speed transducer acquires the belt speed. The controller calculates both the instantaneous load and the totalised amount.

Similarly, wide belts introduce large side forces which cause errors. The NUWEIGH SR-1902 multi-idler Belt Weighers have a fully modular system which allows modules to be run in a tandem or parallel thus giving a common belt weigher for a wide range of applications. This modular design also results in a lighter construction better suited to the load cells.

## CONFIGURATIONS AND DIMENSIONS Single Module (Dual Idler Configuration) SR-1902-2.1



## MULTI MODULE CONFIGURATIONS SR-1902-4.1 (four Idler) and SR-1902-4.2 versions (for belt widths 1600 and above)



MODEL	ACCURACY	No. L/C & MODULES	WEIGHT (kg)	BELT WIDTH	A	B	E	F
SR-1902-2.1-500	±0.5%	1	105					
SR-1902-4.1-500	±0.25%	2	210	500	570	750	60	130
SR-1902-2.1-600	±0.5%	1	111					
SR-1902-4.1-600	±0.25%	2	222	600	670	850	60	130
SR-1902-2.1-650	±0.5%	1	114					
SR-1902-4.1-650	±0.25%	2	228	650	720	900	60	130
SR-1902-2.1-750	±0.5%	1	122					
SR-1902-4.1-750	±0.25%	2	244	750	820	1000	60	130
SR-1902-2.1-800	±0.5%	1	126					
SR-1902-4.1-800	±0.25%	2	252	800	870	1050	60	130
DJM-1942-2.1-900	±0.5%	1	132					
DJM-1942-4.1-900	±0.25%	2	264	900	970	1150	60	130
DJM-1942-2.1-1000	±0.5%	1	138					
DJM-1942-4.1-1000	±0.25%	2	276	1000	1070	1250	60	165
DJM-1942-2.1-1050	±0.5%	1	157					
DJM-1942-4.1-1050	±0.25%	2	314	1050	1120	1300	60	165
DJM-1942-2.1-1200	±0.5%	1	169					
DJM-1942-4.1-1200	±0.25%	2	338	1200	1270	1450	60	165
DJM-1942-2.1-1350	±0.5%	1	184					
DJM-1942-4.1-1350	±0.25%	2	368	1350	1470	1650	60	165
DJM-1942-2.1-1400	±0.5%	1	200					
DJM-1942-4.1-1400	±0.25%	2	400	1400	1520	1700	60	165
DJM-1942-2.1-1500	±0.5%	1	208					
DJM-1942-4.1-1500	±0.25%	2	412	1500	1620	1800	60	165
DJM-1942-2.2-1600	±0.5%	2	282					
DJM-1942-4.2-1600	±0.25%	4	564	1600	1820	2000	60	165
DJM-1942-2.2-1800	±0.5%	2	295					
DJM-1942-4.2-1800	±0.25%	4	590	1800	2020	2200	60	195
DJM-1942-2.2-2000	±0.5%	2	315					
DJM-1942-4.2-2000	±0.25%	4	630	2000	2220	2400	60	205
DJM-1942-2.2-2200	±0.5%	2	330					
DJM-1942-4.2-2200	±0.25%	4	660	2200	2320	2600	60	205
DJM-1942-2.2-2400	±0.5%	2	350					
DJM-1942-4.2-2400	±0.25%	4	700	2400	2530	2800	60	205
DJM-1942-2.2-2500	±0.5%	2	360					
DJM-1942-4.2-2500	±0.25%	4	720	2500	2720	2900	60	205