

Powermaster Spring Balancers are now available in a new closed body concept to ensure better safety.

SPRING BALANCERS

M & D ADVANCE TECHNOLOGY



SWF Series

SWF series balancers are now fully enclosed & are provisioned with a body liner to prevent damage to body. All balancers above 5 kg capacity are available under this series.

CAP ACITY	MODEL NO.	TRA VEL	WEIGHT	CAP ACITY	MODEL NO.	TRA VEL	WEIGHT
kg		meter	kg	kg		meter	Kg
1.5 - 3.0	SWF - 03	1.3	3.5	1.5 - 3.0	SWF - 03 L	2.5	7.0
3.0 - 5.0	SWF - 05	1.3	3.5	3.0 - 5.0	SWF - 05 L	2.5	8.0
4.5 - 9.0	SWF - 09	1.3	4.0	4.5 - 9.0	SWF - 09 L	2.3	8.0
9.0 - 15.0	SWF - 15	1.3	4.0	9.0 - 15.0	SWF - 15 L	2.3	8.0
15.0 - 22.0	SWF - 22	1.5	8.0	15.0 - 22.0	SWF - 22 L	2.3	8.5
22.0 - 30.0	SWF - 30	1.5	9.0	22.0 - 30.0	SWF - 30 L	2.3	9.5
30.0 - 40.0	SWF - 40	1.5	10.5	30.0 - 40.0	SWF - 40 L	2.3	11.0
40.0 - 50.0	SWF - 50	1.5	11.0	40.0 - 50.0	SWF - 50 L	2.3	12.0
50.0 - 60.0	SWF - 60	1.5	12.0	50.0 - 60.0	SWF - 60 L	2.3	13.0
60.0 - 70.0	SWF - 70	1.5	12.5	60.0 - 70.0	SWF - 70 L	2.3	13.5
70.0 - 85.0	SWF - 85	1.5	13.0	70.0 - 85.0	SWF - 85 L	2.3	18.0
85.0 - 100.0	SWF - 100	1.5	13.5	85.0 - 100.0	SWF - 100L	2.5	19.0
100.0 - 120.0	SWF - 120	1.5	14.0	100.0 - 120.0	SWF - 120L	2.5	33.0
120.0 - 140.0	SWF - 140	1.5	32.0	1 10.0 - 130.0	SWF - 130L	2.5	34.0
140.0 - 170.0	SWF - 170	1.5	34.0	-	-	-	-
170.0 - 200.0	SWF - 200	1.5	38.0	-	-	-	-



POWERMASTER SPRING BALANCERS



SWA Series

These balancers are provisioned with wire arrest mechanism, which locks the drum pulley in case of tool disengagement. These balancers are available for capacity from 15 - 70 Kg. & have all the feature of SWF balancers as well. These balancers are primarily used with welding guns and applications where chances of wire slitting or tool disengagement due to accidental failure are higher.

CAPACITY	MODEL NO.	TRAVEL	WEIGHT	CAPACITY	MODEL NO.	TRAVEL	WEIGHT
kg		meter	kg.	kg		meter	kg.
15.0 - 22.0	SWA - 22	1.5	9.5	15.0 - 22.0	SWA - 22 L	2.3	10.0
22.0 - 30.0	SWA - 30	1.5	10.0	22.0 - 30.0	SWA - 30 L	2.3	11.0
30.0 - 40.0	SWA - 40	1.5	12.5	30.0 - 40.0	SWA - 40 L	2.3	14.5
40.0 - 50.0	SWA - 50	1.5	13.0	40.0 - 50.0	SWA - 50 L	2.3	15.0
50.0 - 60.0	SWA - 60	1.5	13.5	50.0 - 60.0	SWA - 60 L	2.3	16.0
60.0 - 70.0	SWA - 70	1.5	14.0	60.0 - 70.0	SWA - 70 L	2.3	16.5



SWK Series

This new economical series balancer covers small range balancer capacity up-to 5Kg. These sheet metal contained balancers are lighter in weight and are economical when compared to conventional aluminum casting balancers. These balancers are provisioned with easy to adjust external knob for adjustment of spring tension.

CAPACITY	MODEL NO.	TRAVEL	WEIGHT	CAPACITY	MODEL NO.	TRAVEL	WEIGHT
kg		meter	gm	kg		meter	gm.
0.6 - 2.0	SWK - 02	1.3	350	-	-	-	-





New POWERMASTER SPRING BALANCERS **New**
SAFETY FEATURES

Prior to the safety initiatives and modifications undertaken by Powermaster older design Spring Balancers had only limited safety provisions, due to which these older type Spring Balancers were prone to operational hazards and industrial accidents leading to huge compensations.

Powermaster has introduced several safety features into our new designed Spring Balancers while retaining all the existing safety features.

Powermaster Balancers have thus become more user friendly, eliminating chances of accidents.

Existing Safety Features Retained :

- **SAFETY PIN** : Stops and locks drum pulley in the event of spring failure and thus prevents the fall of costly equipment and injury to the operator from falling load.
- **ADDITIONAL EYE** : For fixing secondary support chain remains.

Exclusive Safety Features Introduced :

1. ENCLOSED BODY

Spring Balancers from other suppliers are supplied with opening both in Body & Cover causing accidental crush of operator's fingers between revolving drum and the body of the Spring Balancers. To prevent this, side windows on the body and cover have been eliminated. This would prevent industrial accidents.



2. WIRE ARREST MECHANISM (SWA SERIES)

In the unfortunate event of accidental dislodging of the suspended weight, breakage of bottom hook / wire rope, spring tension will pull back the wire rope, resulting in whipping action likely to hurt personnel around.

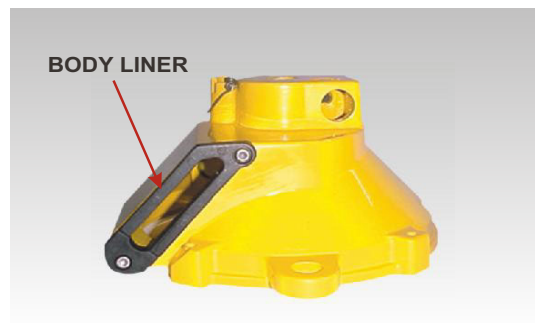


This mechanism will lock the last revolving drum pulley & the wire rope assembly will be stopped with max. 20cm travel.

This will prevent the whipping of wire rope assembly & avoided any injury to operator or any personnel around.

3. BODY LINER

In order to prevent wear of the slot of the Spring Balancer body, a split type Nylon liner for wire rope has been introduced in the new design Spring Balancers.



This liner can be removed and installed on site without any need for dismantling of the wire rope.

This will prevent wear of the costly body resulting in overall saving and reduced down time of equipment.



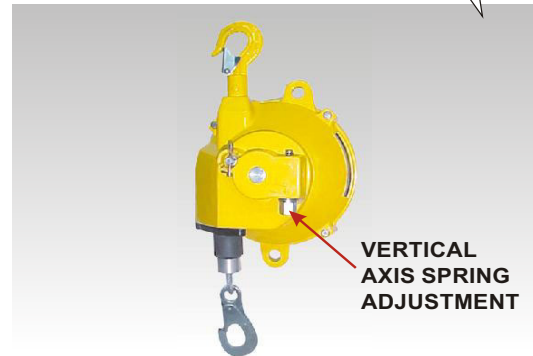


New **POWERMMASTER SPRING BALANCERS SAFETY FEATURES** **New**

4. EASY ADJUSTMENT OF SPRING TENSION

In Spring Balancers from other manufactures the worm gear box for adjustment of Spring Tension worked in the horizontal axis. Gear box position has been rotated through 90 degrees so that spring tension adjustment can be made by working in vertical axis.

This will facilitate adjustment from ground level without any need to rise up to Spring Balancer hanging level. This reduces down time, facilities easy operation and reduces the chance of any mishap during an operator rising to the level of the balancer.



5. WIRE ROPE REPLACEMENT WITHOUT DISMANTLING

A small slot has been provided to facilitate removal and Re-installation of the wire rope without any need for dismantling of the Spring Balancers. This will reduce the down time of the equipment.



6. CONTAINERISED SPRING ASSEMBLY

No longer do you need to handle open springs which are difficult and dangerous to handle with sharp edges. All springs are now supplied in concealed containers for easy replacement. With containerised springs accidents are avoided during maintenance and replacements of springs.



SPRING ASSEMBLY CONTAINER

Reduced Delivery Time - Improved Looks - Better Value - Safety Standards

- With the modification and introduction of new design, DIES have been changed to PRESSURE CAST type.
- Large batch production has been introduced with most models now available from stock.
- Pressure Dies has improved looks.
- Productivity and safety features ensure that your company gets VALUE FOR YEARS!!
- All Powermaster Balancers meet CE, IS & Industrial safety standards.
- In use in over 85 countries with the largest automobile manufacturers.



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