

SuperMax® Round Sling



SuperMax® Round Sling is made of Ultra High Molecular Weight Polyethylene(UHMWPE) yarn covered by durable polyester cover to make high performance lifting round slings. While designed SuperMax® Round Sling, our goal was lightest lifting gear with higher breaking strength of wire rope. DSR used our long experience of designed and manufacturing know-how's to make SuperMax® Round Sling with low elongation while it is stronger than wire rope with less than 10% weight of wire rope. Low elongation of SuperMax® Round Sling makes lifting job much easier and safer. Low elongation enables very lash back. Also, SuperMax® Round Sling is very stable when used with hook, and you can avoid rotating problem of wire rope slings.



SuperMax® Round Specifications

| S.W.L (Safety Working Load) (KG) | Working Load Limits | | | | | Safety Factor 6:1 Breaking Strength (KG) |
|--|---------------------|--------|--------|--------|--------|---|
| | Vertical | Choker | 45° | 60° | Basket | |
| 1,000 | 1,000 | 800 | 1,400 | 1,000 | 2,000 | 6,000 |
| 2,000 | 2,000 | 1,600 | 2,800 | 2,000 | 4,000 | 12,000 |
| 3,000 | 3,000 | 2,400 | 4,200 | 3,000 | 6,000 | 18,000 |
| 4,000 | 4,000 | 3,200 | 5,600 | 4,000 | 8,000 | 24,000 |
| 5,000 | 5,000 | 4,000 | 7,000 | 5,000 | 10,000 | 30,000 |
| 6,000 | 6,000 | 4,800 | 8,400 | 6,000 | 12,000 | 36,000 |
| 8,000 | 8,000 | 6,400 | 11,200 | 8,000 | 16,000 | 48,000 |
| 10,000 | 10,000 | 8,000 | 14,000 | 10,000 | 20,000 | 60,000 |
| 15,000 | 15,000 | 12,000 | 21,000 | 15,000 | 30,000 | 90,000 |
| 20,000 | 20,000 | 16,000 | 28,000 | 20,000 | 40,000 | 120,000 |
| 25,000 | 25,000 | 20,000 | 35,000 | 25,000 | 50,000 | 150,000 |
| 30,000 | 30,000 | 24,000 | 42,000 | 30,000 | 60,000 | 180,000 |
| 35,000 | 35,000 | 28,000 | 49,000 | 35,000 | 70,000 | 210,000 |
| 40,000 | 40,000 | 32,000 | 56,000 | 40,000 | 80,000 | 240,000 |

Mark Specifications

| S.W.L (Safety Working Load) (KG) | Working Load Limits | | | | | Safety Factor 7:1 Breaking Strength (KG) |
|--|---------------------|--------|--------|--------|--------|---|
| | Vertical | Choker | 45° | 60° | Basket | |
| 1,000 | 1,000 | 800 | 1,400 | 1,000 | 2,000 | 7,000 |
| 2,000 | 2,000 | 1,600 | 2,800 | 2,000 | 4,000 | 14,000 |
| 3,000 | 3,000 | 2,400 | 4,200 | 3,000 | 6,000 | 21,000 |
| 4,000 | 4,000 | 3,200 | 5,600 | 4,000 | 8,000 | 28,000 |
| 5,000 | 5,000 | 4,000 | 7,000 | 5,000 | 10,000 | 35,000 |
| 6,000 | 6,000 | 4,800 | 8,400 | 6,000 | 12,000 | 42,000 |
| 8,000 | 8,000 | 6,400 | 11,200 | 8,000 | 16,000 | 56,000 |
| 10,000 | 10,000 | 8,000 | 14,000 | 10,000 | 20,000 | 70,000 |
| 15,000 | 15,000 | 12,000 | 21,000 | 15,000 | 30,000 | 105,000 |
| 20,000 | 20,000 | 16,000 | 28,000 | 20,000 | 40,000 | 140,000 |
| 25,000 | 25,000 | 20,000 | 35,000 | 25,000 | 50,000 | 175,000 |
| 30,000 | 30,000 | 24,000 | 42,000 | 30,000 | 60,000 | 210,000 |
| 35,000 | 35,000 | 28,000 | 49,000 | 35,000 | 70,000 | 245,000 |
| 40,000 | 40,000 | 32,000 | 56,000 | 40,000 | 80,000 | 280,000 |

Comparison of SuperMax® Round Sling and Wire Rope Sling

| | SuperMax® Round Sling | Steel Wire Rope Sling |
|-------------------------|---|--|
| Weight | 1/10 of wire rope of same breaking strength. Light weight enables easy installing and handling of sling, and higher productivity of lifting job. | Because of heavy weight, it's very difficult to move and install the slings. Heavy wire rope sling can cause back pain of the users. |
| Stability | Do not damage the material to be lifted. Positioning is fast and easy. Can tighten up the material to avoid slip while lifting the products. | Can hurt the material to be lifted. Positioning is slow and difficult. |
| Durability | Durable against chemical contacts. Because of the flexibility, it bending ratio can be far smaller. | Easy to get rusted against acid or alkali. Because of stiffness, broken wire can occur unless extra care is taken. |
| Storability | Only small storage space is required because of its flexibility. | Large and dry storage space is required. |
| Economical Value | High initial investment cost. However, higher productivity, longer service life, easier handling and storage result in low total operating costs. | Low initial cost. However, more manpower and heavier equipments to move, install, and lift are required. Total operating cost is high. |



SuperMax® Jacket Sling

SuperMax® Round Sling is covered with the jacket to protect the inside of ropes and prevent damaging.



<Design Registration & Utility Model Registration>



Round Slings

Feature and Merits

- Make the best use of high tenacity polyester yarn's breaking strength with reinforced polyester tube covers
- Better breaking strength than conventional web-sling with less weight
- Take less volume than web-sling
- Easy handling and stocking with superior flexibility
- No damage on the surface of lifting goods



Safety Factor 7 : 1

| Color | S.W.L (TON) | Working Load Limits | | | | |
|--------|----------------|---------------------|--------------|-------------|------------|-------------|
| | | Straight Pull | Choker Hitch | Basket Pull | Basket 90° | Basket 120° |
| VIOLET | 1TON | 1,000Kgs | 800Kgs | 2,000Kgs | 1,400Kgs | 1,000Kgs |
| GREEN | 2 | 2,000 | 1,600 | 4,000 | 2,800 | 2,000 |
| YELLOW | 3 | 3,000 | 2,400 | 6,000 | 4,200 | 3,000 |
| GREY | 4 | 4,000 | 3,200 | 8,000 | 5,600 | 4,000 |
| RED | 5 | 5,000 | 4,000 | 10,000 | 7,000 | 5,000 |
| BROWN | 6 | 6,000 | 4,800 | 12,000 | 8,400 | 6,000 |
| BLUE | 8 | 8,000 | 6,400 | 16,000 | 11,200 | 8,000 |
| ORANGE | 10 | 10,000 | 8,000 | 20,000 | 14,000 | 10,000 |



▶ S.W.L : Safety Working Load