

# PRODUCT GUIDE

## *Chapter 13* *Technical References*



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Research and Development is a continuous process. Hence, some of the information provided in this PRODUCT GUIDE may have become obsolete with TeraSpin's new developments in technology.

TeraSpin is a business unit of A.T.E. Enterprises Private Limited, a company engaged in the service of the textile industry since 1939. TeraSpin came into existence in 2012 after A.T.E.'s takeover of SKF India's textile spinning component business. Since then it has been innovating and making continual improvements in quality and reliability in the service of spinning mills and machinery manufacturers around the world.

TeraSpin's product range consists of weighting arms, top rollers & cradles for roving frame and ring frame, spindle bearing units and complete spindles for ring frames and doubling frames. TeraSpin also offers customized upgrades for existing ring spinning and roving frames.

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## Definition of various count systems

### English (cotton) count:

It is defined as the number of hanks, each of 840 yards, required for the weight of one pound.

### Tex count:

It is defined as the weight in grams of 1000 meters of yarn.

### Denier count:

It is defined as the weight in grams of 9000 meters of yarn.

### Worsted count:

It is defined as the number of hanks, each of 560 yards, required for the weight of one pound.

### French count:

It is defined as the number of 1000 meters of yarn per 500 grams.

### Metric count:

It is defined as the number of 1000 meters of yarn per 1 kilogram.

### Woollen (linen) count:

It is defined as the number of 300 yards of yarn per 1 pound.

## Conversion table for common textile measures

	Denier (D)	English (Ne)	Tex (T)	French (Nf)	Metric (Nm)	Worsted (We)
Denier (D)	-	5315/Ne	9*T	4500/Nf	9000/Nm	7972/We
English (Ne)	5315/D	-	590.5/T	Nf*1.181	Nm*0.5905	We*0.6667
Tex (T)	D/9	590.5/Ne	-	500/Nf	1000/Nm	885.8/We
French (Nf)	-	Ne*0.85	-	-	-	-
Metric (Nm)	9000/D	1.692*Ne	1000/T	2*Nf	-	1.129*We
Worsted (We)	7972/D	105*Ne	885/T	1.77*Nf	0.8857*Nm	-

## Weight measures

	Ounce	Grains	Gram	Kilogram	Pounds
Ounce	-	437.5 grains	28.35 g	-	-
Grains	0.03527 ounces	-	0.0648 g	-	-
Grams	0.03527 grains	15.432 grains	-	0.001 kg	-
Kilograms	35.274 ounces	15432 grains	1000 g	-	2.2046 pounds
Pounds	16 ounces	7000 grains	453.59 g	0.4536 kg	-

### Linear measures

	Yard	Feet	Inches	Centimeter	Meter
Yard	-	3 feet	36 inches	91.44 cm	0.9144 meter
Feet	0.3333 yards	-	12 inches	30.48 cm	0.3048 meter
Inches	0.0278 yards	0.0833 feet	-	2.54 cm	0.254 meter
Centimeter	0.0109 yards	0.0328 feet	0.3937 inches	-	0.01 meter
Meter	1.0936 yards	3.281 feet	39.37 inches	100 cm	-



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