

<i>Light Duty Sheaves & TB Bushings</i>		<i>Heavy Duty Sheaves</i>	
Description	Product Specifications	Description	Product Specifications
Gray Cast Iron <i>Light Duty</i>	SAE J431 Grade G2500 ASTM Class 25 Gray Iron	Gray Cast Iron <i>Heavy Duty</i>	SAE J431 Grade G3000 ASTM Class 30 Gray Iron
Composition	Typical Base Composition % Carbon 3.30-3.60 Silicon 2.10-2.50 Manganese 0.60-0.90 Sulfur (max ^a)15 Phosphorus (max)20 Approximate Carbon Equivalent ^b 4.10-4.30 ^a = typical value ^b = CE={%C + 1/3% Si.}	Composition	Typical Base Composition % Carbon 3.20-3.50 Silicon 1.90-2.30 Manganese 0.60-0.90 Sulfur (max ^a)15 Phosphorus (max)15 Approximate Carbon Equivalent ^b 3.90-4.20 ^a = typical value ^b = CE={%C + 1/3% Si.}
Mechanical Properties	Typical Values Tensile Strength - P.S.I. 24,500 min. Brinell Hardness - range 170-229	Mechanical Properties	Typical Values Tensile Strength - P.S.I. 29,500 min. Brinell Hardness - range 187-241
Microstructure	Pearlitic - Ferritic	Microstructure	Pearlitic
Primer/Paint	Cast iron sheaves are phosphorated before painting. This is to improve the cohesion between the paint film and the base to effectively keep the metal free from rust. A high quality phosphoric lacquer is used to form a dense and regular gray phosphating film over the iron. Paint Type: Amino Baking Enamel.		
TB Bushings & Jaw Couplings	Phosphorated Only		

QD & DOUBLE SPLIT TAPER BUSHINGS

Description	Product Specifications
Ductile (Nodular) Iron	SAE J434 Grade D4512 ASTM 65-45-12
Composition	Typical Composition Values % Carbon 3.20-4.10 Silicon 1.80-3.00 Manganese 0.10-1.00 Sulfur 0.005-0.035 Phosphorus 0.015-0.10
Mechanical Properties	Typical Values Tensile Strength P.S.I. 65,000 Brinell Hardness range 156-217 Yield Strength, 0.2% offset ..45,000
Microstructure	Pearlitic - Ferritic
Coating	Phosphorated - (Bushings are not painted)
Bolt Grade	Equivalent to SAE Grade 5

Jaw Couplings & H Bushings

Description	Product Specifications
Powdered Metal	FTG70CU-35
Composition	Typical Composition Values % Carbon 0.50-1.10 Copper 0.60-1.50 Silicon ≤0.10 Manganese ≤0.15 Sulfur ≤0.50 Phosphorus ≤0.10
Mechanical Properties	Typical Values Tensile Strength P.S.I. 49,700 Brinell Hardness range >100
Microstructure	Pearlitic - Ferritic
Bolt Grade (Bushings)	Equivalent to SAE Grade 5

All sheaves are statically balanced (sheave is put on a shaft to determine imbalance position & weight then the relevant weight is drilled off.) Dynamic balancing is necessary on certain applications (sheave & bushing are installed on a motor running at the desired RPM requirement and then balanced accordingly. Contact customer service to verify whether dynamic balancing is required.