



# Engineering Class Sprockets

Chains and sprockets must work together, so buying them from the same source makes sense. When chains and sprockets articulate correctly, the life of the chain is extended. That means long-term savings and real value for your application.

### **Start with High-Quality Materials**

Union sprockets for Engineering Class Chain are made with quality material—usually carbon steel. Heat-treated carbon steel provides long wear life, resists abrasion, and withstands heavy shock loads. We can also manufacture sprockets using special materials to meet your specific needs. For example, we can make sprockets from alloy steel, stainless steel, or bronze. The result is always the same: Union sprockets are designed to maximize the life of your chain and to keep your operation running smoothly.

### **Flame Cut for Long Wear**

Union sprockets are flame machined, not torched. This special manufacturing operation ensures hardened teeth that stand up to rigorous applications. And we build the same quality into every manufacturing step. We use state-of-the-art computer-driven machinery to precision manufacture heavy-duty sprockets that consistently provide the highest standard of performance.

### **Get Added Locking Power FREE!**

Two set screws are standard on every Union Engineering Class Sprocket. No additional cost. No additional waiting time. That means on-line locking power where you need it most. Two set screws hold sprockets in place well and that means less wear and tear on costly shafting.

### **Select the Sprocket You Need**

The Union Chain Division of U.S. Tsubaki, Inc. offers a full line of Engineering Class Sprockets. In addition to providing Engineering Class Sprockets for every Union chain, our sprockets can be used with chains made by many other manufacturers. Check the Sprocket Cross-Reference Chart in Section D of this catalog. If you have any questions, please contact Union Chain.

## Sprocket Tables

The Specification Tables in this catalog are designed for quick and easy reference. Each table lists the number of teeth, critical dimensions, and standard specifications. You'll also find all

pertinent data for selecting and ordering standard Engineering Class Sprockets, including materials and approximate weights. An example is shown below.

### Sprocket Specification Table Example

*Use the Sprocket Number to order. See the Selection Guidelines at the end of Section C for more information.*

*"For Union Chain Number..." lists all Union chain numbers that will run on this sprocket. See the Product Cross-Reference (Section D) for other industry chain numbers.*

**Sprocket Number US-3075**  
For Union Chain Numbers US-3075, US-1031, US-1030, 30701, US-1032

All dimensions are in inches unless otherwise specified.

**Pitch**

**3.075 Pitch**

**1.250 Roller Diameter  
1.250 Plate Thickness**

**Important Chain Dimensions**

**Type**

Number of Teeth	Type A				Type C						
	Catalog Number	Stock Bore	Approx. Wgt. (lbs.)	Catalog Number	Stock Bore	Max. Bore	Pitch Dia.	Hub Dia.	L.T.B.	Approx. Wgt. (lbs.)	
8	US-3075A8	1.25	18.0	US-3075C8	1.25	3.19	8.035	5.25	3.88	33.0	
9	US-3075A9	1.25	22.0	US-3075C9	1.25	3.19	8.991	5.25	3.88	37.0	
10	US-3075A10	1.50	27.0	US-3075C10	1.50	3.44	9.951	5.50	4.25	48.0	
11	US-3075A11	1.50	33.0	US-3075C11	1.50	3.44	10.915	5.50	4.25	53.0	
12	US-3075A12	1.50	39.0	US-3075C12	1.50	3.44	11.881	5.50	4.25	60.0	
13	US-3075A13	1.50	46.0	US-3075C13	1.50	3.44	12.849	5.50	4.25	66.0	
14	US-3075A14	1.50	53.0	US-3075C14	1.50	3.44	13.819	5.50	4.25	73.0	
15	US-3075A15	1.50	61.0	US-3075C15	1.50	3.94	14.790	6.50	5.00	93.0	
17	US-3075A17	1.50	78.0	US-3075C17	1.50	3.94	16.735	6.50	5.00	110.0	
19	US-3075A19	1.50	97.0	US-3075C19	1.50	3.94	18.682	6.50	5.00	129.0	
21	US-3075A21	1.50	119.0	US-3075C21	1.50	3.94	20.632	6.50	5.00	151.0	
24 <sup>1</sup>	US-3075A24	1.50	155.0	US-3075C24	1.50	3.94	23.558	6.50	5.00	169.0	
30 <sup>1</sup>	US-3075A30	1.50	241.0	US-3075C30	1.50	3.94	29.418	6.50	5.00	227.0	
36 <sup>1</sup>	US-3075A36	1.50	347.0	US-3075C36	1.50	5.44	35.282	8.00	6.25	332.0	
42 <sup>1</sup>	US-3075A42	1.50	472.0	US-3075C42	1.50	5.44	41.148	8.00	6.25	399.0	
48 <sup>1</sup>	US-3075A48	1.50	616.0	US-3075C48	1.50	5.44	47.016	8.00	6.25	458.0	

**Important Sprocket Information**

<sup>1</sup>Furnished standard with lightening holes.

*Special features, such as lightening holes, are listed under tables.*