

CASTER WHEEL BUYING GUIDE



CASTER WHEEL GUIDE

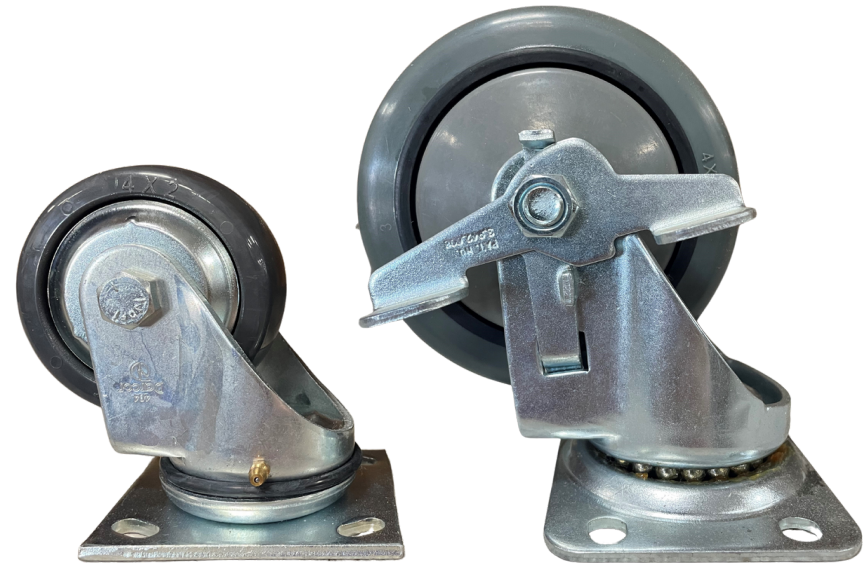
USING THIS GUIDE:

When replacing existing caster wheels on your cart or machine, you can always **provide us with the make and model** to determine which caster wheel to purchase.

If unavailable, please follow this guide to determine the specifications for your desired caster wheel.

INCLUDED IN THIS GUIDE:

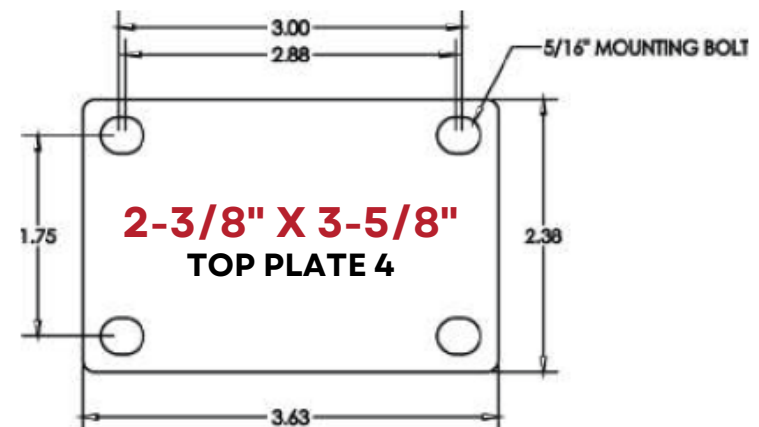
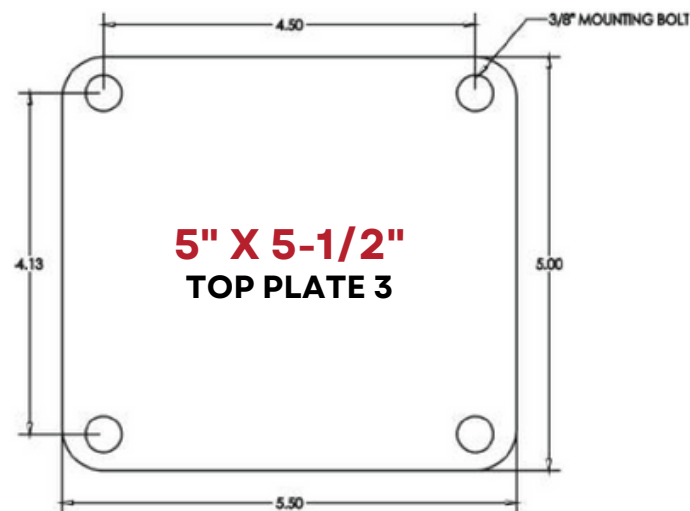
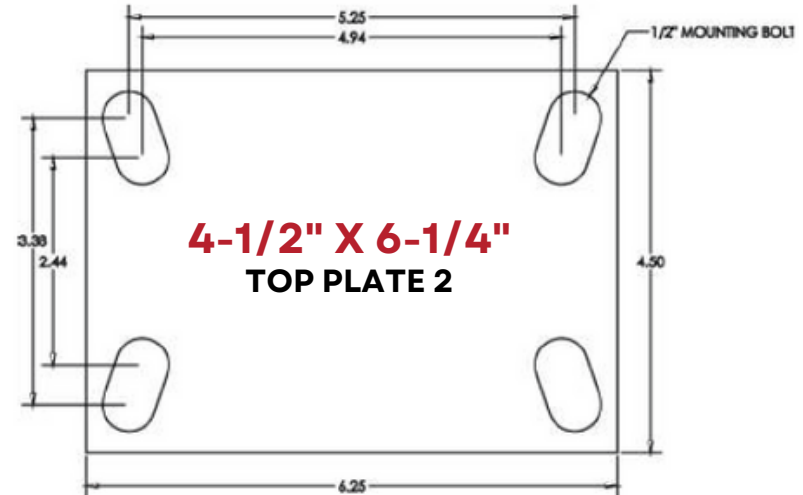
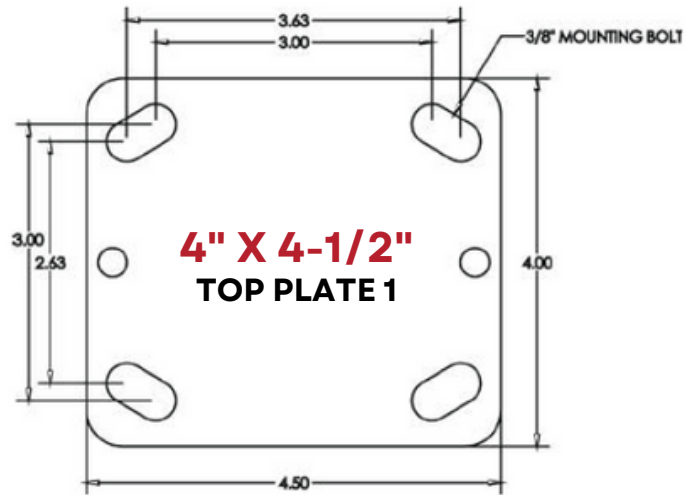
1. BASIC MEASURING GUIDE
2. STANDARD TOP PLATES
3. STANDARD STEMS
4. CASTER LOAD CAPACITY



BASIC MEASURING GUIDE



STANDARD TOP PLATES



If the top plate of your caster wheel does not match any of these standard plate measurements, please measure yours to the best of your ability.

STANDARD STEMS

THREADED STEM CASTER

- THREADED STEM WITH DISTINCT WIDTH (3/8"-3/4"), THREAD COUNT AND LENGTH
- MOST COMMON TYPE OF STEM CASTER



HOLLOW KINGPIN CASTER

- NO STEM BUT HAS OPENING FOR BOLT TO BE INSERTED TO ACT AS A STEM
- GREAT ALTERNATIVE IF YOU CAN'T FIND A CASTER WITH THE NECESSARY THREADED STEM SIZE



GRIP-RING STEM CASTER

- SMALL FRICTION RING KEEPS THE STEM IN THE ROUND INSERTION HOLE
- COMMONLY FOUND ON MOP BUCKET & OFFICE CHAIR CASTERS



EXPANDING STEM CASTER

- EXPANDING ADAPTERS FIT INTO VARIETY OF INNER DIAMETER ROUND OR SQUARE TUBES (DEPENDING ON ADAPTER KIT & TUBE SIZE)
- GREAT FOR HOLLOW LEGS & TUBES



CASTER BRAKES

										
		SIDE LOCK	BOLT-ON FACE CONTACT	BUILT-IN	DUAL PEDAL TOTAL LOCK	TOTAL LOCK	STOP FIX	IDEAL STOP	HAND ACTIVATED SWIVEL LOCK	FOOT ACTIVATED SWIVEL LOCK
LOCKS ROTATION OF	Wheel	✓	✓	✓	✓	✓	✓	✓		
	Swivel				✓	✓	✓	✓	✓	✓
LOCK ENGAGEMENT STYLE		Side pedal	Front pedal	Pedal integrated in swivel	Two pedals for engaging & disengaging	Front pedal	Pedal trails & rotates with wheel	Stationary pedal	Stationary pedal engaged by hand	Stationary pedal engaged by foot
FOR WHEEL DIAMETER		3", 4", 5", 6", 8", 10"	4", 5", 6", 8", 10", 12"	6", 8"	4", 5", 6", 8"	3", 4", 5", 6", 8", 10"	4", 5", 6", 8", 10"	4", 5", 6", 8"	4", 5", 6", 8", 10"	4", 5", 6", 8", 10"
FOR WHEEL WIDTH		2"	2", 3"	2"	2"	1-1/4" or 2"	2"	2"	2", 3"	2", 3"
HIGHEST PERFORMING MATERIALS		Polyurethane, Rubber, Foam-Filled, Pneumatic	Polyurethane, Rubber	Polyurethane, Rubber	Polyurethane, Nylon, Rubber, Steel	Polyurethane, Nylon, Rubber, Steel	Polyurethane, Nylon, Rubber	Polyurethane, Nylon, Rubber	N/A	N/A
CONVENIENCE OF USE		←●→	←●→	←●→	←●→	←●→	←●→	←●→	←●→	←●→
SAFETY LEVEL		Medium	High	High	Medium	Medium	High	High	Low	Low

CASTER LOAD CAPACITY

TO DETERMINE REQUIRED LOAD CAPACITY:

$$\text{Required Load Capacity of Each Caster} = \frac{\text{Maximum Cart Load Weight} + \text{Weight of Cart}}{\text{Number of Casters Used}} \times \text{Safety Factor}^*$$

**Safety Factor is dependent on intended use conditions:*

Indoor Use:

Manual Transport = 1.35 (under 3 mph)

Power Driven Transport = 2 (under 3 mph)

Outdoor Use:

Manual Transport = 1.8 (under 3 mph)

Power Driven Transport = 3 (under 3 mph)

STEP-BY-STEP:

1. Add the **maximum load weight for your cart** to the **weight of the cart**.
2. Divide this number by the **number of casters** to be used (typically 4).
3. Determine what **safety factor** applies to your intended use conditions and *multiply* this number by the total you determined in step 2.
4. The resulting total is the required load