

Precision Maxi-Duty Casters

...Featuring New HPI™ Swivel Technology



#S-MD-84FST Swivel
showing Forged Steel wheel

Move over 10 tons on Hamilton's top-of-the-line *Maxi-Duty Casters*, designed and built for the toughest applications including ship-building, manufactured housing, automotive and aerospace. Long life and dependable service are assured now more than ever with Hamilton's new *HPI™ Swivel Technology*. The new technology is a significant upgrade from conventional ball raceways or unit load bearings and provides an even stronger platform to support Hamilton's three year product warranty. All forged steel wheels are machined with a slight crown to enhance rollability and swiveling.

QUALITY FEATURES

Swivel Construction – 5/8" thick drop forged steel mounting plate (rigid plate 1/2" thick); 3/8" x 5" plate steel contoured legs are welded inside and outside to forged steel horn base.

Kingpin – 1/4" diameter integrally forged with mounting plate guaranteed for life, prevents bending or breaking; threaded for 1/4" slotted nut secured by roll pin for positive locking.

Main Load Bearing – *HPI™* thrust bearing with outside diameter of 7 1/2"; raceways hardened to 58-62HRC and ground to surface finish 16 micro inches.

Secondary Load Bearing – 1/4" precision tapered thrust bearing counteracts radial thrust.

Axle – 1/4" diameter grade 5 hex head with slotted nut and cotter pin.

Lubrication Fittings – Ball-check type in swivel assembly and in wheel hubs with tapered or straight roller bearings.



The enhanced *Maxi-Duty Series* now features *Hamilton's Precision Integrated HPI™ Swivel Technology*. This new technology outperforms conventional CNC-machined ball raceways, kingpinless, and unit load bearing swivel constructions.

The new design improves the bearing's element of contact and more than doubles the number of contact points. The new *HPI™* raceways are also 45% harder than conventional hardened raceways and the surface finish is an incredibly smooth 16 micro inches.



Maxi-Duty Rigid models feature reinforced 3/8" x 5" plate steel legs, continuously welded inside and outside to 1/2" thick mounting plates.

OPTIONAL ACCESSORIES more help on page 13



- **Swivel Lock– 4 position (★4SL)**

–convert swivel to rigid for straight line steering, robotically welded housing & CNC-milled slots assure long lasting, trouble-free performance.



- **Sealed Swivel Assembly (-SS)**

–prolongs caster life in harsh environments

- **Wheel Bearing Seals (-DS)**

–prolong wheel life in harsh environments

- **V-Grooved wheel models**

–see page 68.

- **Custom Engineering**

–Hamilton engineers will custom design any caster to meet customer requirements.

BRAKE CHOICES for more help, see page 20

-HB



Maxi-Duty Thumb-screw Brake

-HCB



Maxi-Duty Contact Brake

THREE YEAR WARRANTY



The *Maxi-Duty Series (MD)* is backed by *Hamilton's Three Year Product Warranty*. Refer to selection table for qualifying wheels.

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#S-MDD-104SYT -
Maxi-Duty Dual Caster
showing Superlast
wheels, see page 24.

FEATURED WHEEL BEARINGS



Precision Tapered Roller Bearings (T):
best for most severe heavy duty and
power-towed applications.



Precision Ball Bearings (B): double
sealed, maintenance free, superior rollabil-
ity aids manual applications, not recom-
mended if shock loading is prevalent.

WHEEL CHOICES for more help, see pages 14 & 15



Duralast®:
95A poly on
iron – our
standard
urethane



Duralast® XC:
70D extra hard
poly on iron,
higher capacity
urethane



Forged Steel:
highest capa-
city, tensile
strength
75,000 psi



Nylast™:
high capacity
cast nylon,
corrosion
resistant



Superlast®:
95A 1" thick
poly/super
duty forged
steel center



Superlast® XC:
70D extra hard 1"
thick poly/ forged
steel center –
highest capacity
urethane



Super Ultrast™:
95A 1" thick ultimate
premium urethane on
super duty forged
steel center



V-Grooved:
take loads
off floor, for
production-
line flow



★ = same day/next day **PRONTO®** shipment.

MD Series Selection Table

3YR = 3 Year Warranty applies

Dia. A	Wheel			Swivel Caster		Rigid Caster		Load Cap. Lbs.	Total Ht. B	Swivel Offset G
	Face	Type	Replacement Number	Hamilton No. Tapered/Prec.BB Brgs.	Wt. Lbs.	Hamilton No. Tapered/Prec.BB Brgs.	Wt. Lbs.			
6	3	Forged Steel	W-630-FST-1¼	★ S-MD-63FST 3YR	50	★ R-MD-63FST 3YR	38	12,000	10	2½
		Nylast™±	W-630-NYB-1¼	S-MD-63NYB	46	R-MD-63NYB	29	5400		
		V-Groove	W-630-FVT-1¼	★ S-MD-63FVT 3YR	48	★ R-MD-63FVT 3YR	40	10,000		
8	3	Forged Steel	W-830-FST-1¼	★ S-MD-83FST 3YR	59	★ R-MD-83FST 3YR	43	14,000	11	2½
		Nylast™±	W-830-NYB-1¼	S-MD-83NYB	46	R-MD-83NYB	29	7200		
		Superlast®	W-830-SYT-1¼	★ S-MD-83SYT 3YR	63	★ R-MD-83SYT 3YR	47	3500		
		Super Ultrast™	W-830-STRT-1¼	S-MD-83STRT 3YR	63	R-MD-83STRT 3YR	47	4200		
		Superlast XC®	W-830-SYT70-1¼	S-MD-83SYT70 3YR	63	R-MD-83SYT70 3YR	47	4500		
10	4	Forged Steel	W-840-FST-1¼	★ S-MD-84FST 3YR	75	★ R-MD-84FST 3YR	59	17,000	13	3
		V-Groove	W-840-FVT-1¼	★ S-MD-84FVT 3YR	70	★ R-MD-84FVT 3YR	56	15,000		
	3	Forged Steel	W-1030-FST-1¼	★ S-MD-103FST 3YR	65	★ R-MD-103FST 3YR	50	6500		
		Forged Steel	W-1040-FST-1¼	★ S-MD-104FST 3YR	85	★ R-MD-104FST 3YR	70	18,000		
		Superlast®	W-1040-SYT-1¼	★ S-MD-104SYT 3YR	85	★ R-MD-104SYT 3YR	70	5000		
		Super Ultrast™	W-1040-STRT-1¼	S-MD-104STRT 3YR	85	R-MD-104STRT 3YR	70	6000		
		Superlast XC®	W-1040-SYT70-1¼	S-MD-104SYT70 3YR	85	R-MD-104SYT70 3YR	70	6500		
	5	V-Groove	W-1040-FVT-1¼	★ S-MD-104FVT 3YR	78	★ R-MD-104FVT 3YR	64	16,000		
		Duralast®	W-1050-DT-1¼	S-MD-105DT 3YR	88	R-MD-105DT 3YR	73	5000		
		Duralast XC®	W-1050-DT70-1¼	S-MD-105DT70 3YR	88	R-MD-105DT70 3YR	73	6500		
12	4	Superlast®	W-1240-SYT-1¼	★ S-MD-124SYT 3YR	104	★ R-MD-124SYT 3YR	94	6000	15½	¾
		Super Ultrast™	W-1240-STRT-1¼	S-MD-124STRT 3YR	104	R-MD-124STRT 3YR	94	7200		
		Superlast XC®	W-1240-SYT70-1¼	S-MD-124SYT70 3YR	104	R-MD-124SYT70 3YR	94	7800		
		Steel	W-1240-FST-1¼	S-MD-124FST 3YR	174	R-MD-124FST 3YR	164	23,000		
	5	Duralast®	W-1251-DT-1¼	S-MD-125DT 3YR	101	R-MD-125DT 3YR	91	6200		
		Duralast XC®	W-1251-DT70-1¼	S-MD-125DT70 3YR	101	R-MD-125DT70 3YR	91	8000		
16	4	Duralast®	W-1640-DT-1¼	S-MD-164DT 3YR	114	R-MD-164DT 3YR	104	5500	19½	¾
		Duralast XC®	W-1640-DT70-1¼	S-MD-164DT70 3YR	114	R-MD-164DT70 3YR	104	7000		
	5	Duralast®	W-1650-DT-1¼	S-MD-165DT 3YR	125	R-MD-165DT 3YR	115	7700		
		Duralast XC®	W-1650-DT70-1¼	S-MD-165DT70 3YR	125	R-MD-165DT70 3YR	115	10,000		

± Straight-sided wheel.

