

Enhanced Precision Super Duty Casters

...Featuring New HPI™ Swivel Technology



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

The Enhanced Precision Super Duty (EPSD) Series is all new – new tooling, new dies, new swivel technology! The new EPSD Series is a handsome caster with good proportions and balance. The series is a significant upgrade from the PSD Series it replaces and is better positioned to outperform in applications suited between our Maxi-Duty (MD) and Extra Heavy Duty (EHD) Series.

The unit load bearing has been replaced with new HPI™ Swivel Technology that has been proven superior to designs with unit load bearings. The new EPSD also features a slightly larger top plate with slotted holes to accommodate the former PSD Series bolt pattern and adds an additional bolt pattern popular in the industry.

QUALITY FEATURES

Swivel Construction – ½" thick drop forged steel mounting plate; ¾" x 4" plate steel legs robotically welded inside and out to forged steel horn base.

Kingpin – 1" diameter integrally forged with mounting plate and threaded for adjustable slotted nut and cotter pin.

Main Load Bearing – HPI™ thrust bearing with outside diameter of 5 5/16"; raceways hardened to 58-62HRC and ground to surface finish 16 micro inches.

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

Axle – 1" dia. grade 5 hex head with lock nut.

Lubrication Fittings – Ball-check type in swivel assembly and in wheels with tapered roller bearings.



The new Enhanced Precision Super Duty Series 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.



#R-EPSD-83NYB Rigid showing new Nylast™ wheel.

OPTIONAL ACCESSORIES more help on page 13



- **Swivel Lock– 4 position (-4SL)**
–convert swivel to rigid for straight line steering



- **Sealed Swivel Assembly (-SS)**
–prolongs caster life in harsh environments
- **Wheel Bearing Seals (-DS)**
–prolong wheel life in harsh environments
- **V-Grooved wheel models**
- **Custom Engineering**
–Hamilton engineers will custom design any caster to meet customer requirements.

FEATURED WHEEL BEARINGS



Precision Ball Bearings (B): double sealed, maintenance free, superior rollability aids manual applications, not recommended if shock loading is prevalent.



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

BRAKE CHOICES for more help, see page 20

★-ZB



Heavy Duty Contact Brake
[not ★ with tapered bearings]

-B



Thumbscrew Brake



WHEEL CHOICES for more help, see pages 14 & 15



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



Forged Steel:
highest capacity, 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 Ultralast™:
95A 1" thick ultimate premium urethane on super duty forged steel center



Ultralast™:
95A –the ultimate premium urethane, outperforms all other urethanes

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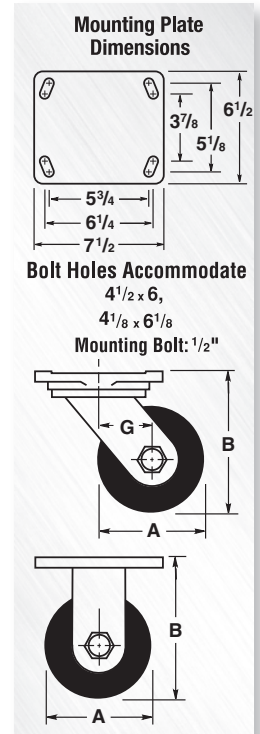
★ = same day/next day PRONTO® shipment.

EPSP Selection Table

3YR = 3 Year Warranty applies

Dia. A	Wheel			Swivel Caster		Rigid Caster		Load Cap. Lbs.	Total Hght. B	Swivel Offset G
	Face	Type	Replacement Number	Hamilton No. Tapered / Prec. BB	Wt. Lbs.	Hamilton No. Tapered / Prec. BB.	Wt. Lbs.			
6	3	Duralast®	W-630-DB-1	S-EPSP-63DB	3YR 36	R-EPSP-63DB	3YR 29	2200	8½	2½
		Duralast® XC	W-630-DB70-1	S-EPSP-63DB70	3YR 36	R-EPSP-63DB70	3YR 28	2860		
		Forged Steel	W-630-FST-1¼	★S-EPSP-63FST	3YR 45	★R-EPSP-63FST	3YR 37	10,000		
		Nylast™‡	W-630-NYB-1	S-EPSP-63NYB	3YR 33	R-EPSP-63NYB	3YR 25	6000		
		Ultralast™	W-630-TRB-1	S-EPSP-63TRB	3YR 36	R-EPSP-63TRB	3YR 29	2600		
8	3	Duralast®	W-830-DB-1	S-EPSP-83DB	3YR 44	R-EPSP-83DB	3YR 36	2500	10½	2½
		Duralast® XC	W-830-DB70-1	S-EPSP-83DB70	3YR 44	R-EPSP-83DB70	3YR 36	3250		
		Forged Steel	W-830-FST-1¼	★S-EPSP-83FST	3YR 48	★R-EPSP-83FST	3YR 40	10,000		
		Nylast™‡	W-830-NYB-1	S-EPSP-83NYB	3YR 34	R-EPSP-83NYB	3YR 26	6500		
		Superlast®	W-830-SYT-1¼	★S-EPSP-83SYT	3YR 51	★R-EPSP-83SYT	3YR 43	3500		
		Superlast®XC	W-830-SYT70-1¼	S-EPSP-83SYT70	3YR 51	R-EPSP-83SYT70	3YR 43	4550		
	4	Super Ultralast™	W-830-STRB-1	S-EPSP-83STRB	3YR 51	R-EPSP-83STRB	3YR 43	4200		
		Ultralast™	W-830-TRB-1	S-EPSP-83TRB	3YR 44	R-EPSP-83TRB	3YR 36	3000		
		Duralast®	W-840-DT-1¼	S-EPSP-84DT	3YR 46	R-EPSP-84DT	3YR 38	3200		
		Forged Steel	W-840-FST-1¼	S-EPSP-84FST	3YR 64	R-EPSP-84FST	3YR 56	10,000		
10	3	Duralast®	W-1030-DT-1¼	S-EPSP-13DT	3YR 54	R-EPSP-13DT	3YR 46	3000	12½	2½
		Duralast® XC	W-1030-DT70-1¼	S-EPSP-13DT70	3YR 54	R-EPSP-13DT70	3YR 46	3900		
		Forged Steel	W-1030-FST-1¼	S-EPSP-13FST	3YR 59	R-EPSP-13FST	3YR 51	6500		
		Ultralast™	W-1030-TRT-1¼	S-EPSP-13TRT	3YR 54	R-EPSP-13TRT	3YR 46	3600		
	4	Forged Steel	W-1040-FST-1¼	★S-EPSP-104FST	3YR 80	★R-EPSP-104FST	3YR 72	10,000		
		Superlast®	W-1040-SYT-1¼	★S-EPSP-104SYT	3YR 74	★R-EPSP-104SYT	3YR 66	5000		
		Superlast®XC	W-1040-SYT70-1¼	S-EPSP-104SYT70	3YR 74	R-EPSP-104SYT70	3YR 66	6500		
		Super Ultralast™	W-1040-STRT-1¼	S-EPSP-104STRT	3YR 74	R-EPSP-104STRT	3YR 66	6000		
12	4	Forged Steel	W-1240-FST-1¼	S-EPSP-124FST	3YR 156	R-EPSP-124FST	3YR 149	10,000		
		Superlast®	W-1240-SYT-T-1¼	S-EPSP-124SYT	3YR 92	R-EPSP-124SYT	3YR 85	6000		
		Superlast®XC	W-1240-SYT70-1¼	S-EPSP-124SYT70	3YR 92	R-EPSP-124SYT70	3YR 85	7800		
		Super Ultralast™	W-1240-STRT-1¼	S-EPSP-124STRT	3YR 92	R-EPSP-124STRT	3YR 85	7200		

‡ Straight-sided wheel.



Mini-Mite™ Caster

QUALITY FEATURES

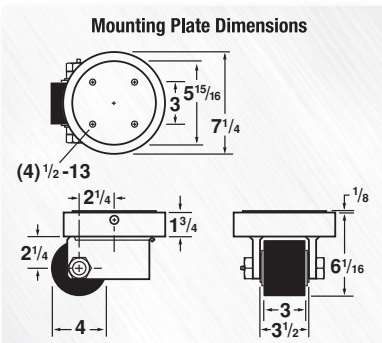
Swivel Construction – Kingpinless-design 7¼" outside diameter outer ring base with CNC-machined 6" diameter hardened raceway and polished steel balls.

Axle – 1" diameter grade 5 lube axle.

Wheel Bearings – (2) 1" needle thrust bearings and (2) 1" needle roller bearings.

Lubrication Fitting – Ball-check type in swivel assembly.

Hamilton is proud to introduce the new Mini-Mite caster for those applications that demand an extremely low overall height and an incredibly high capacity. Each Mini-Mite caster stands only 6" tall and supports up to 10,000 lbs. Hamilton engineers accomplished this feat using kingpinless swivel construction with an immense 6" diameter raceway. The raceways are CNC-machined and hardened to handle the extra capacity. The caster wheel is a 4" x 3" wide 1045 steel roller and inside are four bearings: (2) needle thrust and (2) needle roller. The outside diameter of the ring is 7¼" and there are four ½-13 holes for mounting 3" x 3" wide. The rig and wheel are painted battleship gray enamel.



MM Selection Table

Dia. A	Wheel		Swivel Caster		Load Cap. Lbs.	Swivel Radius	
	Face	Type	Replacement Number	Hamilton Model No.			Wt. Lbs.
4	3	Forged Steel	W-430-FSX-1	S-MM-43FS	37	10,000	2½