



The lightest hubs  
in the industry  
just got lighter...  
***and stronger!***

## **Dura-Light Evolution™ Hubs**

Join the Evolution™ Revolution!

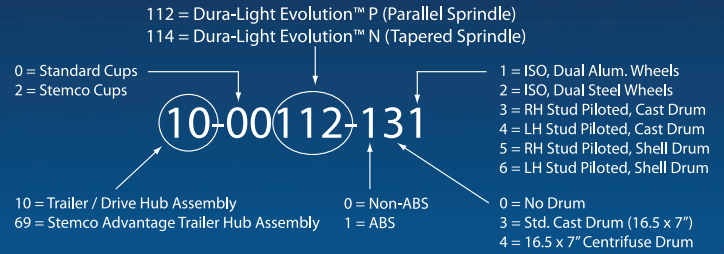
<b>Experience</b>	Leading the industry for more than 15 years
<b>Weight</b>	The Lightest Hub in the industry...period More freight, better fuel economy
<b>Durable</b>	The strength of steel forgings
<b>Serviceable</b>	Wheel bolts and bearings are easy to replace
<b>E-Coating</b>	Outperforms powder and water-based coatings
<b>Warranty</b>	Life-of-the-Vehicle Warranty

ALWAYS...

**Made in  
the USA!**

# Dura-Light Evolution™ Hubs

## Dura-Light Evolution™ Hub Assembly Numbers



### *The preferred hub (10-00112) for use with 2" offset wheels and wide-based single tires!*

In keeping with Walther EMC's heritage of bringing innovative products to our customers, we have been busy making the industry's lightest hubs even lighter. Our engineers have used the latest technology to optimize the hub designs. This has enabled us to eliminate material where it is not needed while leaving the ideal amount of material in the critical areas.

The five-pilot geometry of our Evolution™ hubs reduces stress concentrations in the critical areas. The end result is a lighter hub that is even stronger than our previous generation of Dura-Light Hubs™.

#### Walther EMC Dura-Light Evolution™ Hub Benefits:

- Low cost
- More freight capacity for entire trailer life; helps offset recent increases in tractor weight
- Improved fuel economy – lower rotational inertia
- No future costs to maintain weight savings; i.e. high replacement cost of light-weight brake drums
- Trailer more valuable because light-weight (resale)
- Life-of-the-Vehicle Warranty
- Weight reduction without trailer life compromise
- Utilizes industry standard components – bearing cups, seal, hub cap and hub cap bolts
- Utilizes industry standard procedures for maintenance
- Virtually impossible to strip hub cap bolt hole threads
- Industry-leading lubricant capacity extends bearing and seal life
- No aluminum hub maintenance risks

#### Dura-Light Evolution™ Hubs **ELIMINATE** these Aluminum Hub Maintenance Risks:

- Soft aluminum drum and wheel pilots are easily damaged from improper installation of the brake drum or wheels causing permanent damage to aluminum hub pilots and allowing the brake drums or wheels to be improperly aligned on the hub. This can lead to brake vibrations, drum hot-spotting, and premature drum failure.
- A galvanic reaction (highly corrosive) occurs between ferrous brake drums and aluminum hubs causing great difficulty with drum removal and improper piloting on re-installation. This can lead to brake thumping and premature drum failure.
- Hub cap bolt hole threads are easily stripped on aluminum hubs, risking oil leakage, bearing failure, axle fire, axle damage, etc. Also, installation of non-plated ¼ - 20 hub cap bolts will react (galvanic reaction) with the aluminum hub causing significant deterioration of the threads and possible loss of holding force.
- Aluminum hub manufacturers recommend heating the hub in an oven to 175 – 215 F to remove the bearing cups. Since few maintenance shops use ovens for maintenance procedures, a torch is often used with no control of temperature when applied to the aluminum hub. Overheating the hub to remove and install cups, i.e. using a torch, can materially change the metal fatigue characteristics of aluminum and thus increase the risk of failure.
- Industry standard bearing cup removal and installation procedures can easily scar and nick aluminum surfaces, risking mounting problems, spun bearing cups, or premature failure.
- Difficult to remove wheel nuts can loosen wheel bolts in soft aluminum hubs. Loose wheel bolts might allow inaccurate torque of fasteners, risking wheel loss and damage.

ALWAYS...

Made in  
the USA!

Walther Engineering &  
Manufacturing Company

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