

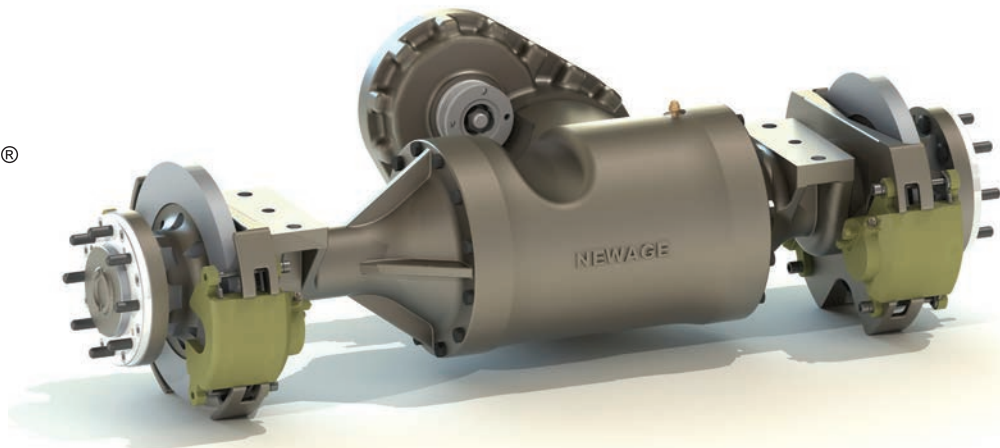
PRODUCT SHEET:

RAMPTECH® NEWAGE TOW TRACTOR AXLES

RAMPTECH®
ENGINEERED FOR THE RAMP



NEWAGE



Durable designs that handle heavy duty demands.

Finally, a range of drive axles that can handle very high torque loads while combating the rigors of the ramp. The RAMPTECH® NEWAGE drive axles are specifically developed to sustain the demands of baggage and freight tow tractors. These axles are designed as direct drop-in replacements and are compatible with many of the common brands and models of tractors. All of the RAMPTECH® NEWAGE axles are built to withstand the demanding range of applications encountered in the GSE industry. The improved design of the RAMPTECH® NEWAGE axles makes them the optimal extended life replacement for the older designs of drive axles previously used in GSE.

Each series (512, 515, 612, 613) of the RAMPTECH® NEWAGE double reduction rigid drive axle incorporates a unique feature set particular to the application it's designed for.

Axle mounting dimensions and application information available upon request.

FEATURES

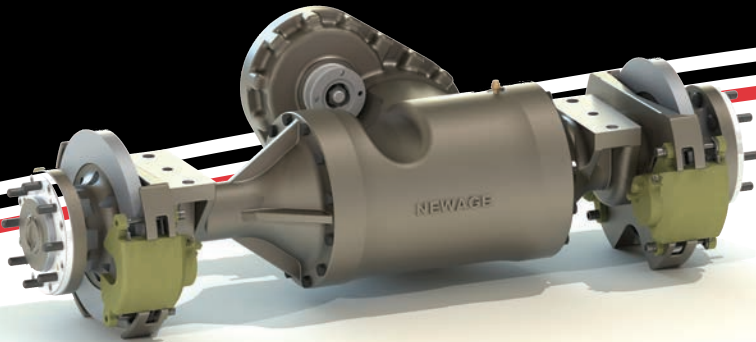
- ✓ Direct no hassle bolt on conversion
- ✓ Axle load capacities of 3,500 lbs to 11,000 lbs
- ✓ Draw bar pull capabilities from 4,000 lbs to 12,000 lbs
- ✓ Double and triple reductions – inboard planetary design
- ✓ Uses standard and readily available wheel rims
- ✓ Multiple ratios offered
- ✓ Variety of track widths, mounts, and centers
- ✓ Uses standard dual caliper brakes
- ✓ Park brake option is available
- ✓ Heavy duty, compact, durable, and robust
- ✓ Designed to take very high wheel torque loads

See all basic specifications on back

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TOW TRACTOR AXLES:

512 AND 515 SERIES TOW TRACTOR AXLES



TUG MODELS

Model	Ratio	Mounting	Part Number
MA30/MA50	14.1:1	Rigid Mounted Pads Up	512B14T082
	15.8:1		512B16T082
	19.9:1		512B20T082

Model	Ratio	Mounting	Part Number
M1A	14.1:1	Rigid Mounted Pads Down	512B14C212
	15.8:1		512B16C212
	19.9:1		512B20C212

TAYLOR DUNN/TIGER MODELS

Model	Ratio	Mounting	Part Number
TC30/60	14.1:1	Spring Mounted Pads Up	512B14T082
	15.8:1		512B16T082
	19.9:1		512B20T082

CHARLOTTE MODELS

Model	Ratio	Mounting	Part Number
CT5G	14.1:1	Spring Mounted Pads Up	512B14C213
	15.8:1		512B16C213
	19.9:1		512B20C213

NMC WOLLARD MODELS

Model	Ratio	Mounting	Part Number
60	14.1:1	Spring Mounted Pads Up	512B14N012
	15.8:1		512B16N012
	19.9:1		512B20N012

TROWIN MODELS

Model	Ratio	Mounting	Part Number
MK3	14.1:1	Spring Mounted Pads Up	512B14C211
	15.8:1		512B16C211
	19.9:1		512B20C211

The 512 series axle - a perfect fit.

The RAMPTECH® NEWAGE 512 series axle is the ideal replacement axle for use with most standard baggage and smaller cargo tow tractors. The 512 was designed with easy installation in mind and can bolt seamlessly into compatible tractors.

Additional information such as axle mounting dimensions and application information available on request.



The 515 series axle - A Toyota tractor's new best friend.

The RAMPTECH® NEWAGE 515 series axle is specially designed to be used as a replacement axle for Toyota brand tractors.

TOYOTA MODEL

PARK BRAKE	W/O PARK BRAKE	MODEL	RATIO	MOUNTING CONFIGURATION
515PB12T141	N/A	TD25	12.3:1	Leaf Spring Over

TOW TRACTOR AXLES:

612 AND 613 SERIES TOW TRACTOR AXLES

The right replacements. The most reliable performance.

The 612 and 613 tow tractor axles are available in a variety of ratios to suit your specific ground support operation needs. Each axle can be used as a drop-in replacement for many existing axles in most models of cargo tractors.

612 Axle Model Application Matrix

NMC Wollard M100 AND TAYLOR DUNN TC100/120 (REPLACES TA268)

Model	Pilot	Stud Size	Ratio	Mounting	Part Number
M100	6.5 in (165.1 mm)	9/16 UNF	13.7:1	Spring Mounted Pads Up	612B13N012
			15.78:1		612B16N012
			19.74:1		612B20N012

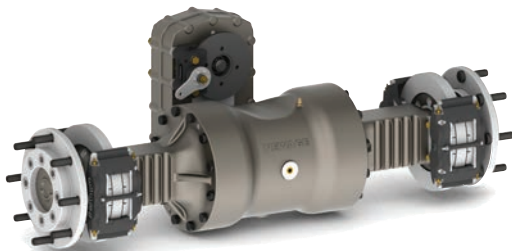


TA268 REPLACEMENT WITH LARGER PCD STUD PATTERN

Model	Pilot	Stud Size	Ratio	Mounting	Part Number
M100	8.66 in (220 mm)	Metric 20 x 1.5 x50 mm	13.7:1	Spring Mounted Pads Up	612B13N01
			15.78:1		612B16N01
			19.74:1		612B20N01

612 Axle Model Application Matrix

TUG MR/MT



Model	Ratio	Mounting	Brake	Part Number
MR/MT	10:1	Ribbed Housing Uses U-bolt	NO	613B10T072
	10:1		YES	613PB10T072
MR/MT	16:1	Ribbed Housing Uses U-bolt	NO	613B16T072
	16:1		YES	613PB16T072
MR/MT	20:1	Ribbed Housing Uses U-bolt	NO	613B20T072
	20:1		YES	613PB20T072

TOW TRACTOR AXLES: RAMPTECH® NEWAGE AXLES: STANDARD SPECIFICATIONS

AXLE SPECIFICATIONS BY SERIES

SERIES	512	515	612	613
AXLE RATIOS AVAILABLE	15.8:1 / 19.9:1	9.1:1 / 12.3:1 / 14.8:1 15.8:1 / 18.6:1	13.2:1 / 15.8:1 / 19.7:1	10.1:1 / 13.2:1 / 15.8:1 / 19.7:1
MAXIMUM LOAD RATING	6,614 lbs (3,000 kg) based on 48 in (1,219 mm) wheel track	8,819 lbs (4,000 kg) based on 48 in (1,219 mm) wheel track	11,000 lbs (5000 kg) based on 50 in (1219 mm) wheel track	11,000 lbs (5,000 kg) based on 50 in (1,270 mm) wheel track
TYPICAL DRAW BAR PULL	6,000 lbs (26,700 N)	6,000 lbs (26,700 N)	12,000 lbs (53,400 N)	12,000 lbs (53,400 N)
BRAKES	Dual caliper hydraulic disc brakes	Dual caliper hydraulic disc brakes	Dual caliper hydraulic disc brakes	Dual caliper hydraulic disc brakes
DRY WEIGHT	Approximately 661 lbs (300 kg)	Approximately 551 lbs (250 kg)	Approximately 727 lbs (330 kg)	Approximately 880 lbs (400 kg)
PARK BRAKE	Optional (Disc mounted)	Optional (Disc mounted)	Optional (Disc mounted)	Optional (Disc mounted)
WHEEL FIXINGS WITH WHEEL MOUNTING	8 ea. 9/16-18 UNF Studs 6.5in. (165.1 mm) BC	8 ea. 9/16-18 UNF Studs 6.5in. (165.1 mm) BC	8 ea. 9/16-18 UNF Studs 6.5 in. (165.1 mm) BC Or 8ea. M20x1.5 Studs 275 mm (10.83 in.) BC	8 ea. 9/16-18 UNF Studs 6.5 in. (165.1 mm) BC Or 8 ea. M20x1.5 Studs 275 mm (10.83 in.) BC
STANDARD MOUNTINGS	30.11 in (765 mm) mounting centers 6.25 in (158.75 mm) u-bolt centers 2ea .0811 in (20.6 mm) u-bolt mounting holes per side (accommodates standard 3/4 in diameter u-bolts)	27.15 in (689.5 mm) mounting centers 6.25 in (158.75 mm) u-bolt centers 2ea .0811 in (20.6 mm) u-bolt mounting holes per side 2ea .067 (17 mm) centering holes (1 ea side)	Housing design accommodates multiple mounting centers between 23.5 in (597 mm) and 28 in (711 mm) Detailed information available on request	The universal housing design accommodates the following mounting centers 25.3 in (643.33 mm) 27.6 in (700 mm) 29.8 in (756.67 mm) 32 in (813.33 mm) and 34.25 in (870 mm)
INPUT FLANGE	HS1310	HS1310	HS1410	HS1410

*Optional mountings and track widths are available upon request.

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