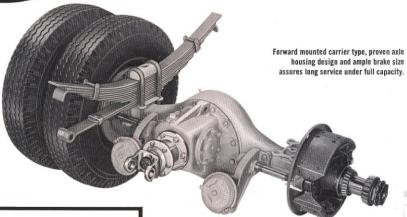


## Rear Axles

RAD 529 · RAD 5291

RADL 529 · RADL 5291

RAD 530 · RAD 5301



Axle shafts have shallow splines and are induction hardened for greater torsional strength and endurance.



Self lubricating, four-pinion type differential provides a greater distribution of stress. Extra strong gears assure long life. Mack Designed and manufactured, the Dual Reduction axle is a single speed type with two ratio steps in the carrier gears.

The first ratio step is through exclusive Mack DURA-POID spiral bevel gears. The DURAPOID gear tooth form causes the tooth bearing to remain in position under deflecting loads. Gear teeth mesh properly in the whole range from light to heavy loads. End tooth loadings are avoided.

Coarse pitch second reduction helical gears provide for greater individual tooth strength by permitting huskier teeth and a tooth form that directs stresses to the body of the bull gear.

The axle housing is of ample strength and rigidity. The pressed steel banjo, tube sleeves and spindle tubes of seamless steel tubing are joined into an integral structure by electric fusing.

Dual Reduction gearing has a balanced DURAPOID bevel gear pair and a husky helical gear pair. Mack exclusive tooth contact pattern increases gear life and reduces down time.



## **REAR AXLE MODELS**

RAD 529 • \*RADL 529 • RAD 530 RAD 5291 • \*RADL 5291 • RAD 5301

## Detail Specifications

	Make Mack Drive Dual Reduction Construction One-piece, formed	Bearings  Bevel pinion, frontTapered roller, single-row
	from tubular stock, heat-treated; cover, pressed steel, welded to banjo  Spindle diameter, Inner bearing	rearTapered roller, single-row  Bevel gear and helical pinion shaftTapered roller, single-row (2)  DifferentialTapered roller, single-row (2)
C	Carrier	Rear Wheels, inner Tapered roller,
	Model	single-row (2) outerTapered roller, single-row (2)
	8.83, 9.87	Axle Shafts
	Housing Material Malleable iron Differential, type 4-pinion Model (optional extra) CRD 1171	Material Chromium-molybdenum steel, induction hardened
	Carrier CRD 1171 has the Mack Power Divider type differential	Type Integral flange Diameter, minimum 2"
	Driving Gears	over spline2-3/8" Splines at inner end Seventeen
	Face width, bevel gears 1-3/4" (5.78, 6.36, 6.80, 7.48)	TypeInvolute
	1-7/8" (4.25, 4.62, 5.43) 1-11/16" (7.85, 8.83, 9.87)	Torque and propulsion Through springs (Hotchkiss)
	helical gears3-1/4"	

RAD 530 and RAD 5301 is the same as RAD 529 and RAD 5291 except for high mounted brake chambers and malleable iron brake shoes in place of aluminum.

## BRAKES

RAD 529	<b>RAD 5291</b>	
*RADL 529	*RADL 5291	
RAD 530	<b>RAD 5301</b>	Type Internal expanding
ActuationAir	Air	inclosed
Diameter 16-1/2"	16-1/2"	Drum material Alloy cast iron
Width6"	7"	Brake chambers, effective —steel backed
Lining thickness 3/4"	3/4"	area30 sq. in.
lining area, both wheels 414 sq. in.	476 sq. in.	Slack adjusters, length 6-15/16"

<sup>\*</sup>RADL 529 and RADL 5291 have aluminum brake chamber brackets, spiders and shoes



†Availability dependent upon individual chassis model.

View of air-actuated brakes showing rigid brake shoes, widely-spaced wheel bearings with positive lock retention.

Oil Capacity ......31 pints

MACK TRUCKS, INC., Plainfield, N. J.

PRINTED IN U.S.A.