

DART TRUCKS

SPECIFICATIONS
MODEL 355L



CAPACITY - Struck Measure	24.0 Cu. Yd.
Heap Load (3:1 Slope)	27.5 Cu. Yd.
Payload	70,000 Lbs.

FRAME - Box girder frame made of four plates welded into box section by submerged arc welding - Gusset supported crossmembers welded integral with frame - Tubular extra strong bumper welded to frame - Front and rear tow clevis - Front and rear torque arm brackets - Body hinge support - Hoist support - Cut down frame allows maximum accessibility to engine.

ENGINE - Cummins NVH-1200 - 12 cylinder - 400 HP diesel engine - Bore 5-1/8" x Stroke 6" - Displacement 1486 Cu. In. - Maximum torque 1075 ft/lbs @ 1500 RPM - Cranking motor 20 BM Ingersoll-Rand Air Starter.

COOLING SYSTEM - Dart heavy duty radiator with flat tube and fin type core and mounted on rubber - Dart heavy duty radiator grille guard - (Automatic air controlled Kysor radiator shutters optional).

CONVERTER - Twin Disc DF-11,500 series hydraulic torque converter. 3-stage type with downhill braking feature - Up to 6 to 1 torque multiplication - Finger tip valve which controls oil actuated clutches within converter. Has four positions: Neutral, converter drive, direct drive and braking.

TRANSMISSION - Dart-Cotta GA-966 three speed transmission. Extra heavy duty transmission designed for use with torque converter. Constant mesh gears, heavy duty power take off for operating hoist pump. Ratios: First - 2.32; Second - 1.52; Third - 1.00; Reverse - 2.52.

FRONT AXLE - Dart 50,000 Lb. tubular front axle - Tube is 8" in diameter and wall thickness is 1" - 24" cast spring seat for mounting springs - Semi-elliptic, free floating front springs with 10 leaves 5" wide and 3/4" thick - Two longitudinal radius rods to axle and front of frame - Track 113".

DRIVE AXLE - Dart 110,000 Lb. planetary drive axle - Double reduction carrier with overall reduction of 3.08:1.00 - Final reduction consisting of three planets in each wheel of 6.00:1.00 - Total gear reduction 18.24:1.00 - Housing of high strength nickel alloy cast steel - 4" spacing between dual tires to insure maximum tire cooling - Semi-elliptic, free floating rear springs with 8 leaves 6" wide x 1" thick - Two longitudinal radius rods to axle and frame - Track 96" center of duals.

BRAKES - Two-shoe, internal expansion, air operated brakes on front and drive wheels - 12 cu. ft. air compressor - One large air reservoir in main air system and two reservoirs for operating drive wheel brakes in case of emergency - Front wheel brakes are 20-1/4" x 5" and actuated by 24 square inch roto chambers - Drive wheel brakes are 25-1/4" x 9" and actuated by 50 square inch roto chambers - Total brake lining area on truck is 1527 square inches - Drum type hand brake actuated by Orscheln adjustable hand lever which also locks drive wheel brakes through emergency system.

STEERING - Ross TE-71 - Roller mounted, twin lever type steering gear - Vickers hydraulic booster actuated by Pitman arm providing hydraulic power steering for "finger touch" control.

CAB - Heavy duty mining cab 73" wide - All steel and welded construction - Safety glass throughout - Six ventilator openings - Two ventilator window wings - Extra heavy duty door handles and hinges - Adjustable driver's seat - Cab offset to left of frame.

BODY - Dart chute type body with tapered width from front to rear to permit load to slide out easily - Double bottom with 2" hardwood cushion between 1/2" wear plate and 3/8" bottom plate - Front header plate and shell plate 3/8" - Top edges of body protected with heavy angles - A large protective canopy extends over the cab - All welded construction. (Wear bars optional.)

HYDRAULIC EQUIPMENT - Two Dart hydraulic three-stage, double acting telescopic hoists - Mounted on outside of frame - Oil pressure for hoists produced by gear type pump - Pump driven by PTO mounted on transmission - Body is controlled through four positions - Float, lower, hold and raise, by fast acting four-way valve - PTO and valve levers located in cab to left of driver's seat - Operating pressure of system is 900 PSI - Oil reservoir is 32 gallons and is equipped with filter.

TIRE EQUIPMENT - 18.00 x 33 - 32 ply rating dual tires on drive axle - 18.00 x 25 - 28 ply rating tires on front axle - All tires are Rock Service.

FUEL TANK CAPACITY - One 150 gallon tank mounted on left side of frame.

ELECTRICAL SYSTEM - One 12-volt battery with 12-volt lighting system.

OPTIONAL EQUIPMENT - Twin Disc CO 11,500 series torque converter.

DIMENSIONS -

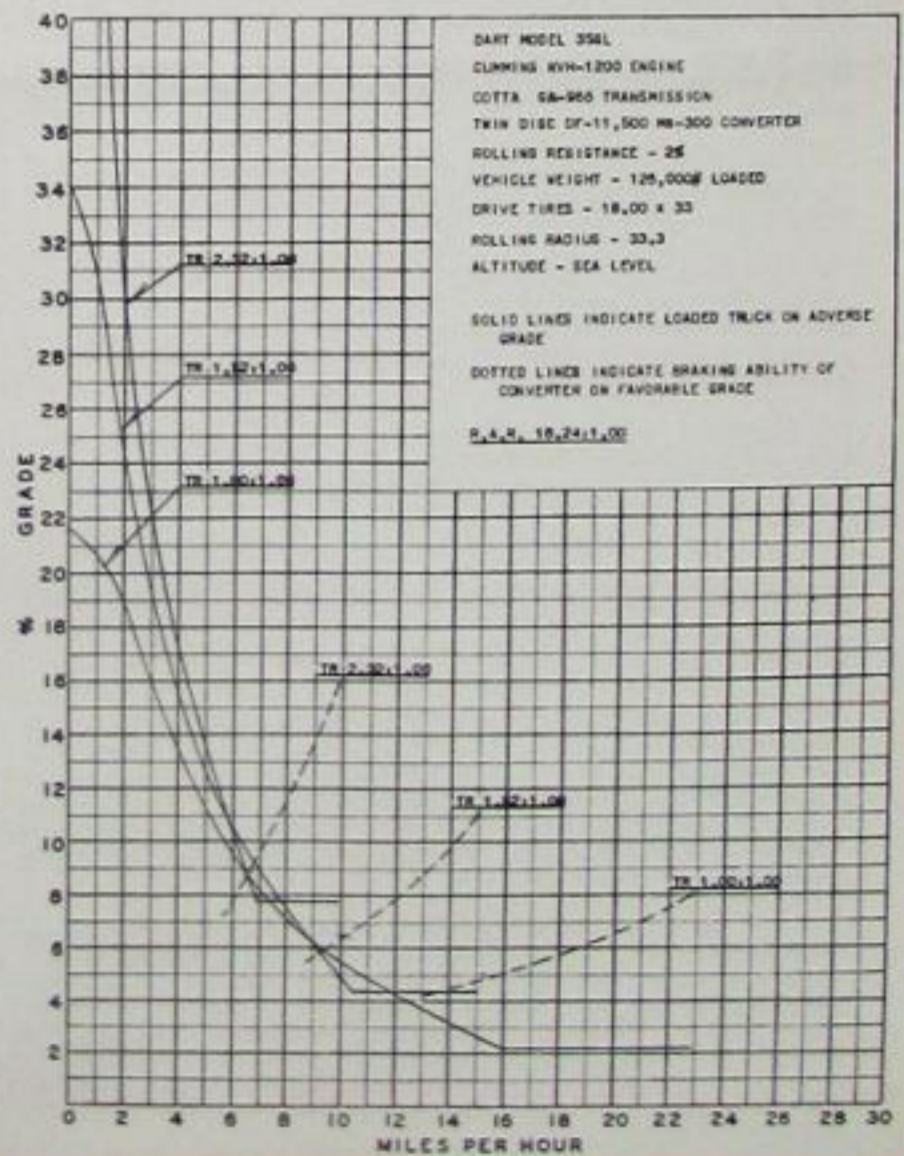
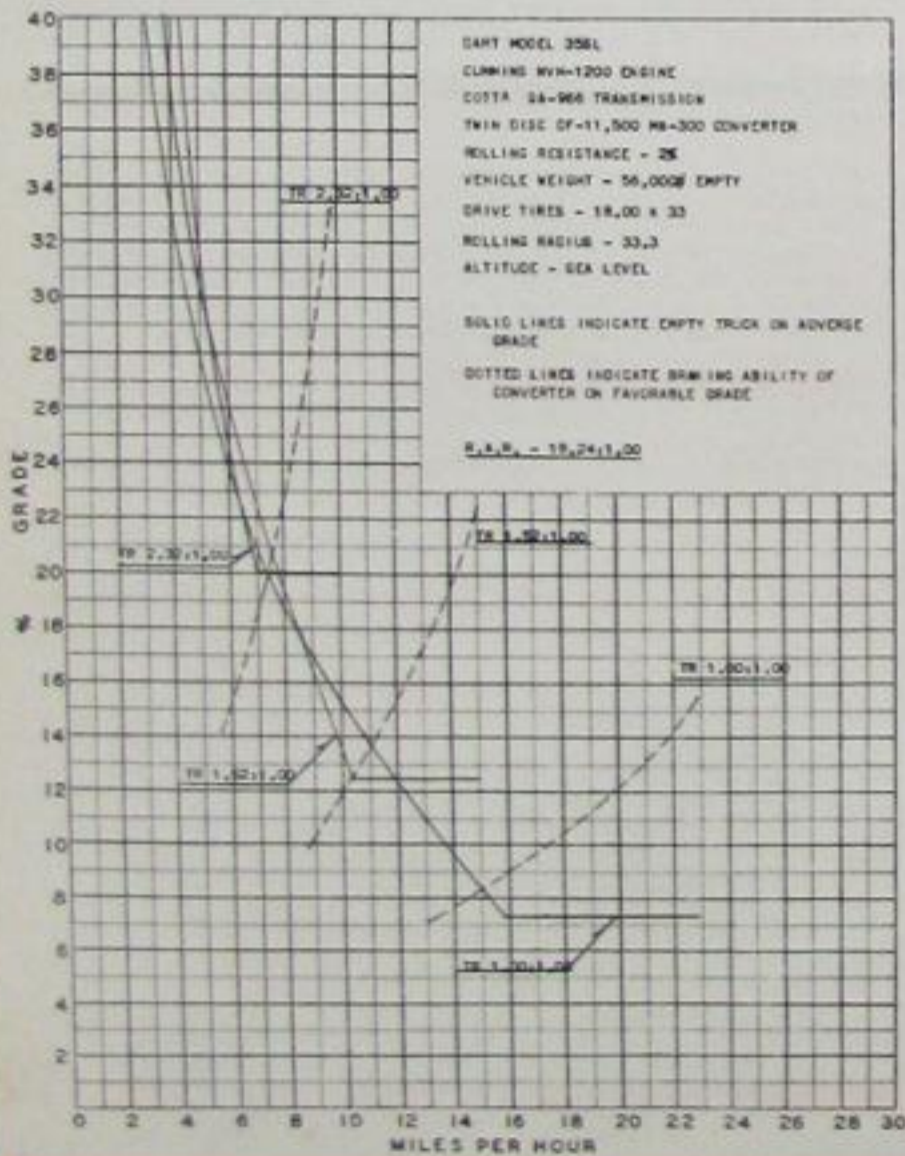
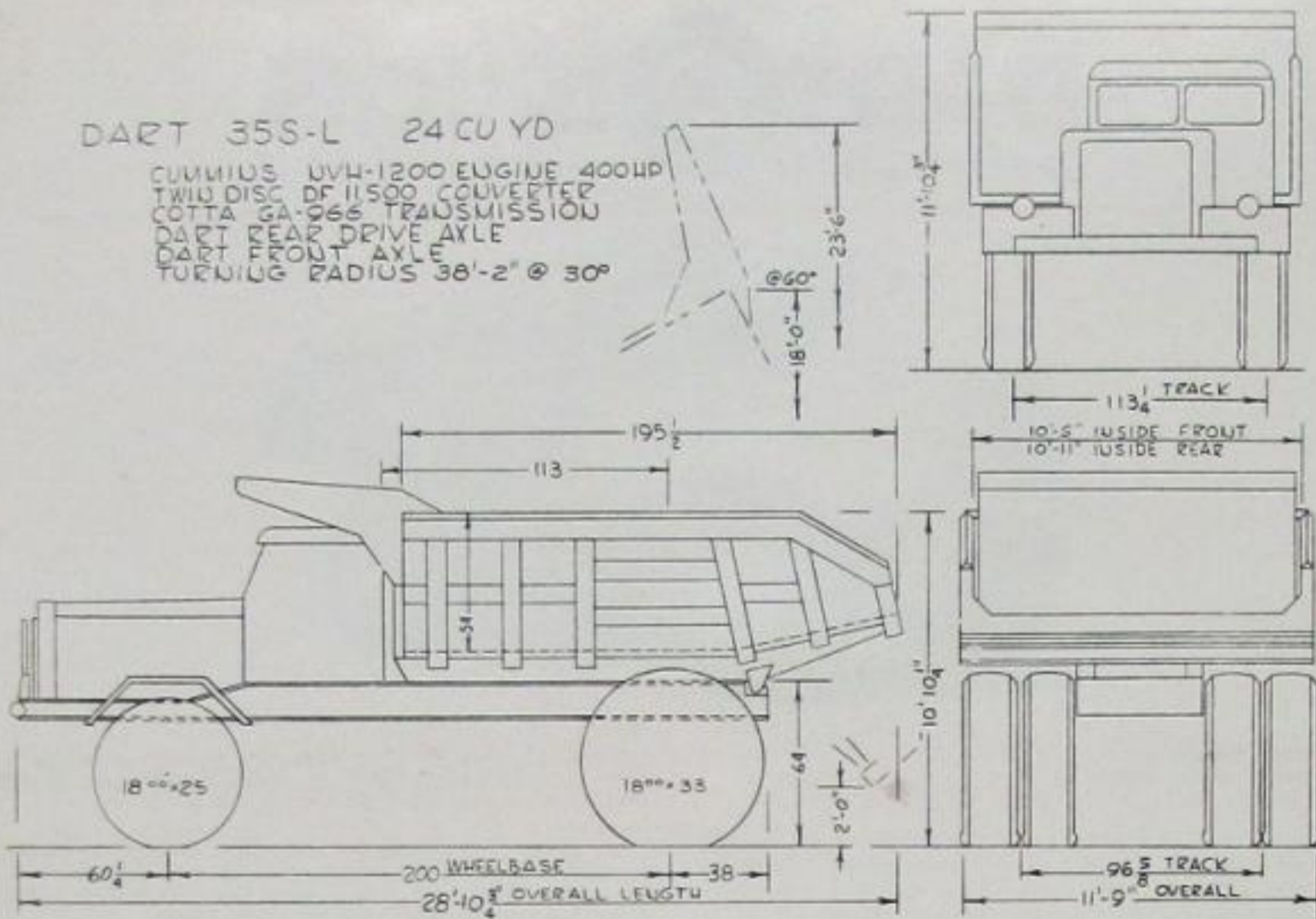
Wheelbase	16' 8"
Length - Overall	28' 11"
Height - Overall	12' 3"
Width - Overall	11' 9"
Loading Height	10' 10"
Body Length (Inside)	16' 3"
Body Width (Inside Average)	10' 8"
Front Axle Clearance	1' 7"
Drive Axle Clearance	1' 10"
Turning Radius (Outside Track)	36' 4"
Dumping Angle	65°

WEIGHTS -

Chassis With Hoists	37,600 Lbs.
Body	18,400 Lbs.
Net Weight (Empty Vehicle)	56,000 Lbs.
Gross Weight (With 70,000 Lb. Payload)	126,000 Lbs.
Distribution: Front Axle	30,000 Lbs.
Rear Axle	96,000 Lbs.

DART 35S-L 24 CU YD

CUMMINS UVH-1200 ENGINE 400HP
 TWIN DISC DF-11500 CONVERTER
 COTTA GA-966 TRANSMISSION
 DART REAR DRIVE AXLE
 DART FRONT AXLE
 TURNING RADIUS 38'-2" @ 30°



DART TRUCKS

SPECIFICATIONS TONNAGE
ENGINEERED MODEL 50T



CAPACITY - Struck Measure.....	31 Cu. Yd.
Heap Load (3:1 Slope).....	35 Cu. Yd.
Payload.....	100,000 Lbs.

FRAME - Box girder frame made of four plates welded into box section by submerged arc welding - Gusset supported crossmembers welded integral with frame - Tubular extra strong bumper welded to frame - Front and rear tow clevis - Front and rear torque arm brackets - Body hinge support - Hoist support - Cut-down frame allows maximum accessibility to engine.

ENGINE - Cummins NVH-1200 - 12 cylinder - 400 HP diesel engine - Bore 5-1/8" x Stroke 6" - Displacement 1486 Cu. In. - Maximum torque 1075 ft/lbs @ 1500 RPM - Cranking motor 20 BM Ingersoll-Rand Air Starter.

COOLING SYSTEM - Dart heavy duty radiator with flat tube and fin type core and mounted on rubber - Dart heavy duty radiator grille guard - (Automatic air controlled Kysor radiator shutters optional).

CONVERTER - Twin Disc DF-11,500 series hydraulic torque converter. 3-stage type with downhill braking feature - Up to 6 to 1 torque multiplication - Finger tip valve which controls oil actuated clutches within converter. Has four positions: Neutral, converter drive, direct drive and braking.

TRANSMISSION - Fuller four-speed transmission - Extra heavy duty transmission designed for use with torque converter - Constant mesh gears - Heavy duty power take-off for operating hoist pump - Ratios: First - 1.98; Second - 1.40; Third - 1.00; Fourth - .71; Reverse - 1.61.

FRONT AXLE - Dart fabricated 35,000 Lb. box front axle - Box is 7" square and wall thickness is 1" - 22" spring seat for mounting springs - Semi-elliptic, free floating front springs with 20 leaves 4" wide x 1/2" thick - Two longitudinal rods to axle and front of frame - Track 107".

DRIVE AXLES (Mounted in Tandem) - (2) Dart 100,000 Lb. planetary drive axles - Double reduction carrier with overall reduction of 4.12 to 1.00 - Final reduction consisting of three planets in each wheel of 5 to 1 - Total gear reduction is 20.59 to 1.00 (optional ratios of 12.57 and 15.23 are available) - Housings of high strength nickel alloy cast steel - 4" spacing between dual tires to insure maximum tire cooling - Semi-elliptic, free floating rear springs with 18 leaves 6" wide and 1" thick - Six radius rods from tandem suspension to frame - Track 95" center of duals - Bogie wheelbase 65".

BRAKES - Two-shoe, internal expansion, air-operated brakes on front and drive tandem wheels - 12 cu. ft. air compressor - One large air reservoir in main air system and two reservoirs for operating drive wheel brakes in case of emergency - Front wheel brakes are 20-1/4" x 5" and are actuated by 24 square inch rotor chambers - Drive wheel brakes are 20" x 9" and are actuated by 50 square inch rotor chambers - Total brake lining area on truck is 2185 square inches - Drum type hand brake actuated by Orscheln hand lever which also locks drive wheel brakes through emergency system.

STEERING - Ross TE-71 - Roller mounted, twin lever type steering gear - Vickers hydraulic booster actuated by Pitman arm providing hydraulic power steering for "finger touch" control.

CAB - Heavy duty mining cab 73" wide - All steel and welded construction - Safety glass throughout - Six ventilator openings - Two ventilator window wings - Extra heavy duty door handles and hinges - Adjustable driver's seat - Cab offset to left of frame.

BODY - Dart chute type body with tapered width from front to rear to permit load to slide out easily - Double bottom with 2" hardwood cushion between 1/2" wear plate and 3/8" bottom plate - Front header plate and shell plate 3/8" - Top edges of body protected with heavy angles - A large protective canopy extends over the cab - All welded construction. (Wear bars optional).

HYDRAULIC EQUIPMENT - Two Dart hydraulic, four stage, double acting telescopic hoists - Mounted on outside of frame - Oil pressure for hoists produced by gear type pump - Pump driven by PTO mounted on transmission - Body is controlled through four positions--float, lower, hold and raise, by fast acting four-way valve - PTO and valve lever located in cab to left of driver's seat - Operating pressure of system is 900 PSI - Oil reservoir is 45 gallons and is equipped with filter.

TIRE EQUIPMENT - 18.00 x 25 - 28 ply rating dual tires on rear tandem axles - 16.00 x 25 - 24 ply rating on front axle - Tires are Rock service.

FUEL TANK CAPACITY - One 150-gallon tank mounted on right side of frame.

ELECTRICAL SYSTEM - One 12-volt battery with 12-volt lighting system.

OPTIONAL EQUIPMENT - Allison torque converter and transmission - Buda and GMC Diesel Engines, 18.00 x 25 - 28 ply rating tires on front axle.

DIMENSIONS -

Wheelbase.....	17'	2"
Length - Overall.....	31'	8"
Height - Overall.....	12'	2"
Width - Overall.....	11'	10"
Loading Height.....	12'	2"
Body Length - Inside.....	17'	11"
Body Width - Inside Average.....	10'	3"
Front Axle Clearance.....	1'	4"
Drive Axle Clearance.....	1'	6"
Turning Radius - Outside Track.....	42'	3"
Dumping Angle.....	65°	

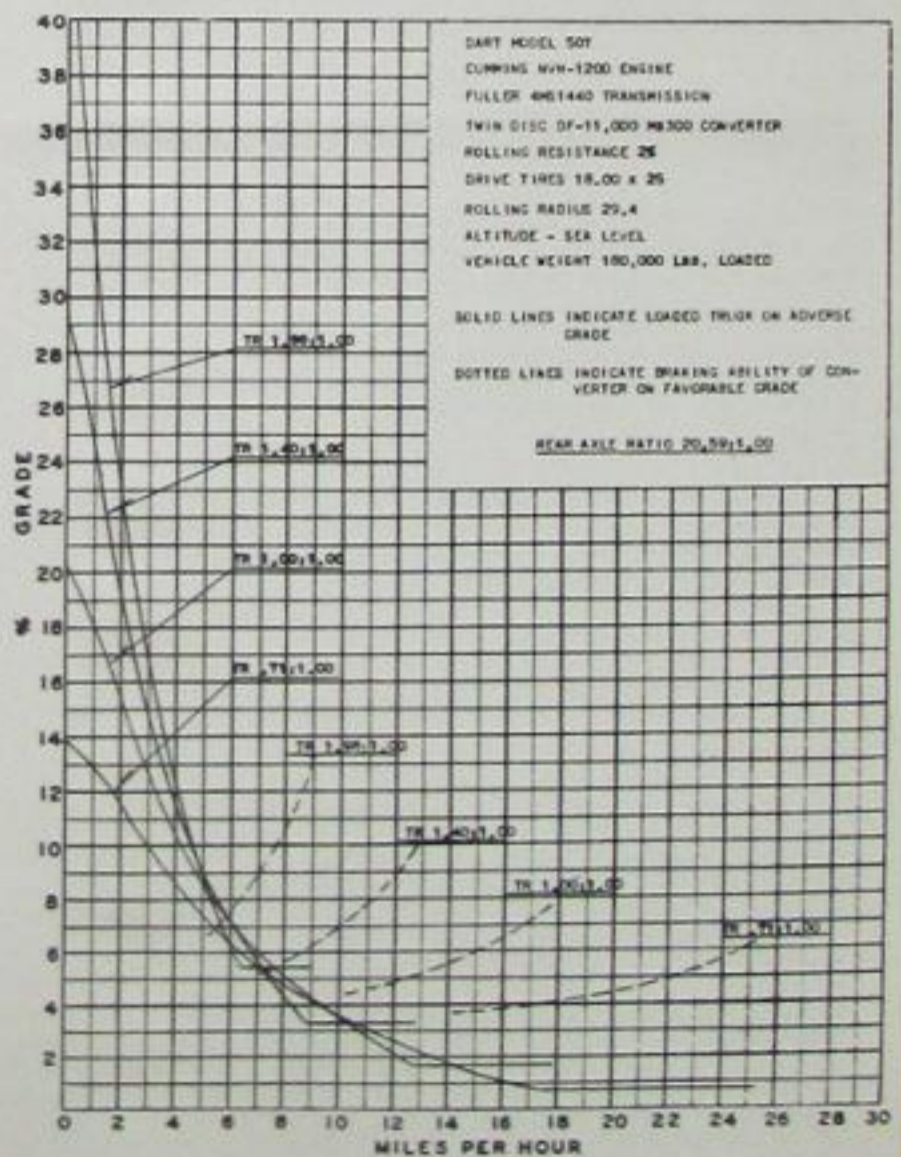
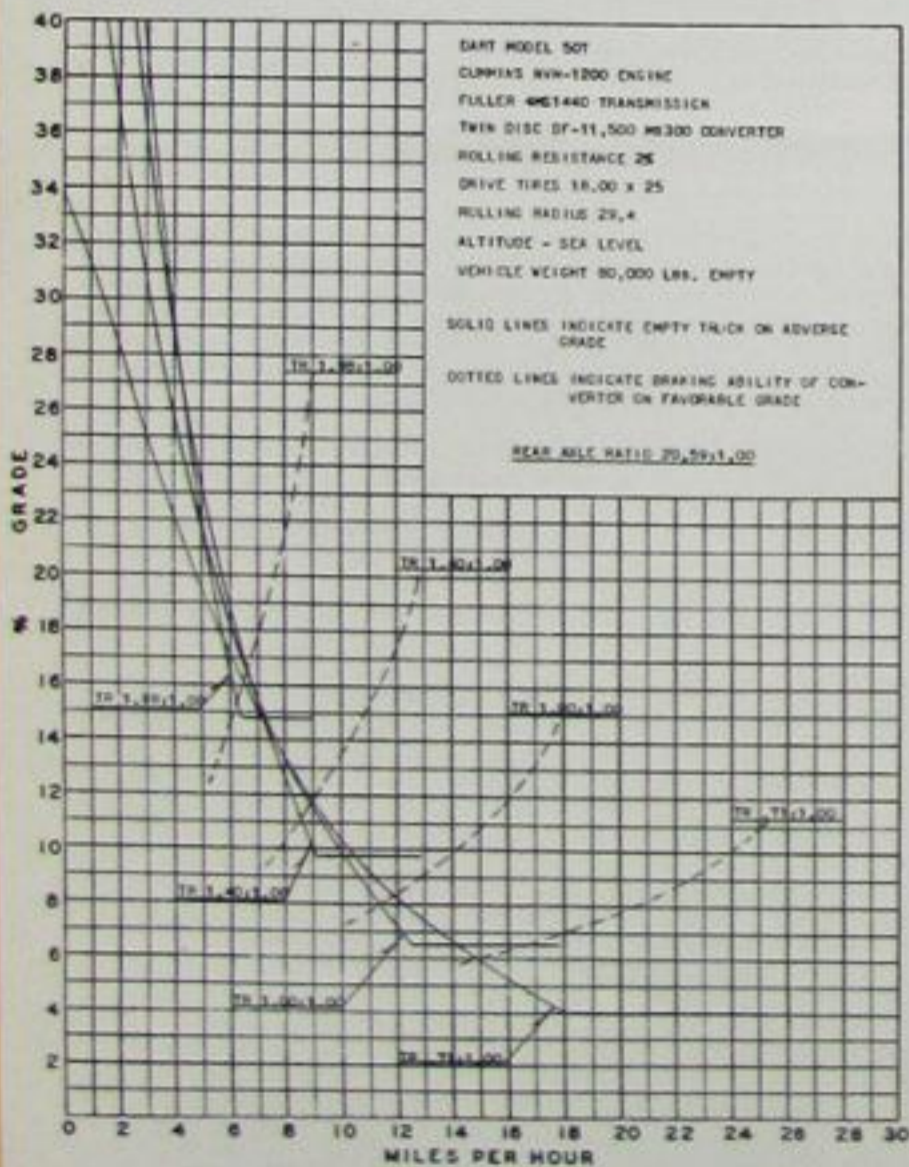
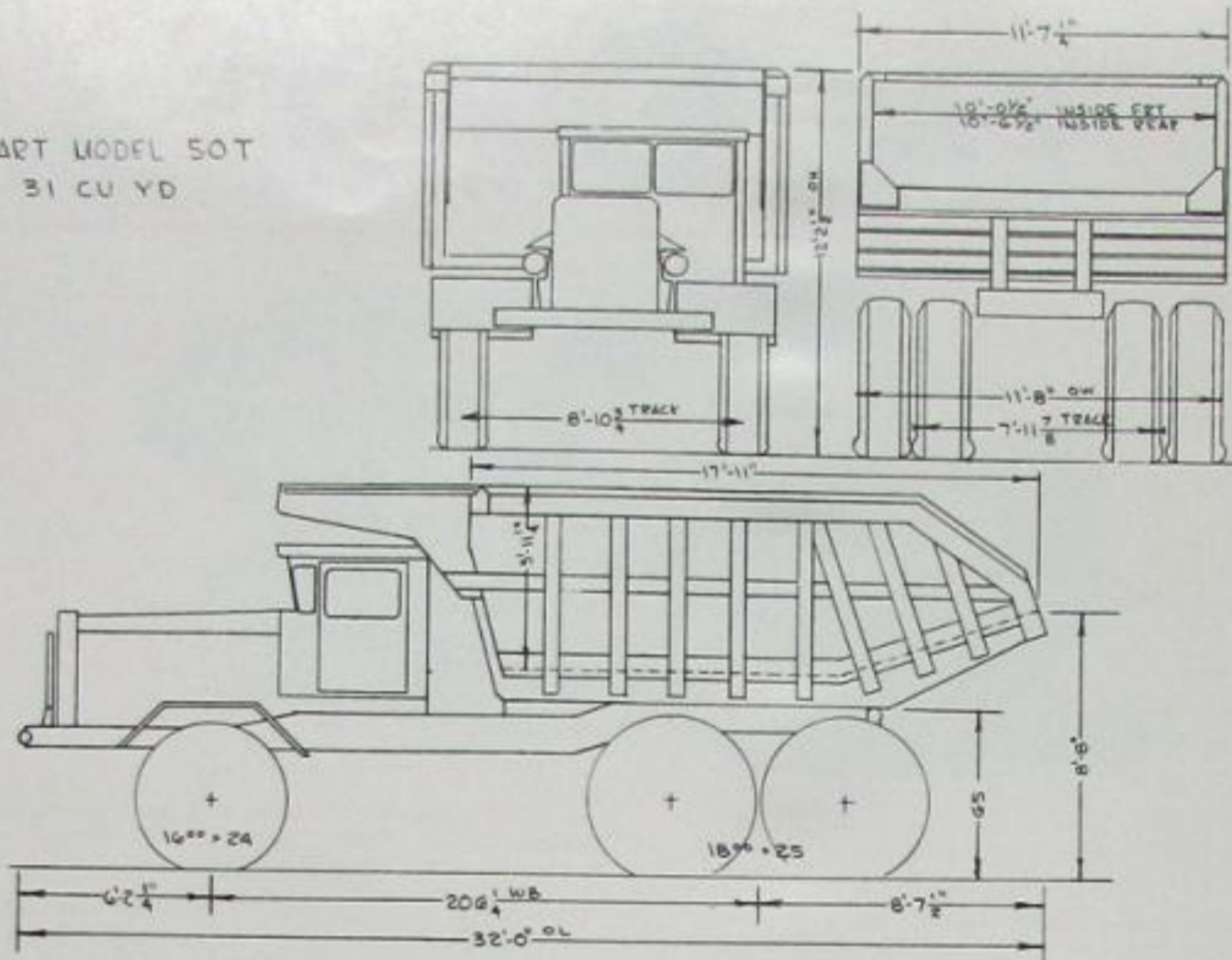
WEIGHTS -

Chassis With Hoists.....	58,250 Lbs.
Body.....	21,750 Lbs.
Net Weight (Empty Vehicle).....	80,000 Lbs.
Gross Weight (With 100,000 Lbs. Payload).....	180,000 Lbs.
Distribution: Front Axle.....	30,200 Lbs.
Rear Axle.....	149,800 Lbs.

DART TRUCK COMPANY

KANSAS CITY, MISSOURI

DART MODEL 50T
31 CU YD



DART TRUCKS

SPECIFICATIONS
MODEL 255



CAPACITY - Struck Measure	16.0 Cu. Yd.
Heap Load (3:1 Slope)	19.2 Cu. Yd.
Payload	50,000 Lbs.

FRAME - Box girder frame made of four plates welded into box section by submerged arc welding - Gusset supported crossmembers welded integral with frame - Tubular extra strong bumper welded to frame - Front and rear tow clevis - Front and rear torque arm brackets - Body hinge support - Hoist support - Step down frame allows maximum accessibility to engine.

ENGINE - Cummins NHRBS-600 - 6 cylinder - 300 HP supercharged diesel engine - Bore 5-1/8" x Stroke 6" - Displacement 743 Cu. In. - Maximum torque 800 ft/lbs @ 1500 RPM - Cranking motor 24 volt Delco-Remy. (Air starting motor optional.)

COOLING SYSTEM - Dart heavy duty radiator with flat tube and fin type core and mounted on rubber - Dart heavy duty radiator grille guard - (Automatic air controlled Kysor radiator shutters optional).

CLUTCH - Lipe-Rollway 17" toggle type, single plate clutch - Heavy duty woven fabric facing material with 290 square inches of facing area.

CONVERTER - Twin Disc CD-10,000 series hydraulic torque converter - 3-stage type with downhill braking feature - Up to 6 to 1 torque multiplication.

TRANSMISSION - Fuller 4-speed transmission - Extra heavy duty transmission designed for use with torque converter - Constant mesh gears - Heavy duty power take-off for operating hoist pump - Ratios: First - 1.98; Second - 1.40; Third - 1.00; Fourth - .71; Reverse - 1.61.

FRONT AXLE - Timken 25,000 lb. tubular front axle - Tube is 6-3/4" in diameter and wall thickness is 1" - 14" cast spring seat for mounting springs - Semi-elliptic, free floating front springs with 25 leaves 4" wide and 3/8" thick - Two longitudinal radius rods to axle and front of frame - Track 95"

DRIVE AXLE - Dart 100,000 lb. planetary drive axle - Double reduction carrier with overall reduction of 4.12:1.00 - Final reduction consisting of three planets in each wheel of 5.00:1.00 - Total gear reduction 20.59:1.00 - (Optional ratios of 12.57 and 15.23 available) - Housing of high strength nickel alloy cast steel - 4" spacing between dual tires to insure maximum tire cooling - Semi-elliptic, free floating rear springs with 7 leaves 6" wide x 1" thick - Two longitudinal radius rods to axle and frame - Track 96" center of duals.

BRAKES - Two-shoe, internal expansion, air operated brakes on front and drive wheels - 12 Cu. Ft. air compressor - Two air reservoirs in main air system and one reservoir for operating drive wheel brakes in case of emergency - Front wheel brakes are 20-1/4" x 5" and actuated by 24 square inch roto chambers - Drive wheel brakes are 20" x 9" and actuated by 50 square inch roto chambers - Total brake lining area on truck is 1325 square inches - Drum type hand brake actuated by Orschels adjustable hand lever which also locks drive wheel brakes through emergency system.

STEERING - Ross TE-71 - Roller mounted, twin lever type steering gear - Vickers hydraulic booster providing hydraulic power steering for "finger touch" control.

CAB - Heavy duty cab 40" wide - All steel and welded construction - Safety glass throughout - Two ventilator window wings - Extra heavy duty door handles and hinges - Adjustable driver's seat - Cab offset to left of frame for maximum visibility.

BODY - Dart chute type body with tapered width from front to rear to permit load to slide out easily - Double bottom with 2" hardwood cushion between 1/2" wear plate and 3/8" bottom plate - Front header plate and shell plate 3/8" - Top edges of body protected with heavy angles - A large protective canopy extends over the cab - All welded construction. (Wear bars and/or 1/2" shell optional).

HYDRAULIC EQUIPMENT - Two Dart hydraulic two-stage, double acting telescopic hoists - Mounted on inside of frame - Oil pressure for hoists produced by gear type pump - Pump driven by PTO mounted on transmission - Body is controlled through four positions—float, lower, hold and raise, by fast acting four-way valve - PTO and valve levers located in cab to left of driver's seat - Operating pressure of system is 1200 PSI - Oil reservoir is 32 gallons and is equipped with filter.

TIRE EQUIPMENT - 18.00 x 25 - 24 ply rating dual tires on drive axle - 14.00 x 25 - 20 ply rating tires on front axle - All tires are Rock Service.

FUEL TANK CAPACITY - One 100-gallon tank mounted on left side of frame.

ELECTRICAL SYSTEM - Two 12-volt batteries with 24-volt starting and lighting system.

OPTIONAL EQUIPMENT - Allison torque converter and transmission - Fuller 10-speed transmission - Buda and GMC diesel engines.

DIMENSIONS -

Wheelbase	11' 0"
Length - Overall	23' 3"
Height - Overall	11' 0"
Width - Overall	11' 8"
Loading Height	9' 3"
Body Length (Inside)	14' 1"
Body Width (Inside Average)	11' 5"
Front Axle Clearance	1' 3"
Drive Axle Clearance	1' 6"
Turning Radius (Outside Track)	29' 1"
Dumping Angle	65°

WEIGHTS -

Chassis With Hoists	31,850 Lbs.
Body	13,100 Lbs.
Net Weight (Empty Vehicle)	44,950 Lbs.
Gross Weight (With 50,000 Lbs. Payload)	94,950 Lbs.
Distribution: Front Axle	23,850 Lbs.
Rear Axle	71,100 Lbs.

DART MODEL 25S
16 CU. YD.

