

Asia MotorWorks Ltd.

AMW 3118 - 5535 WB 8 x 4 TIPPER

CHASSIS NOMINAL DIMENSIONS - Unladen (mm)

A) Wheel Base (As per new definition)	: 5535
A1) Wheel Base (As per old definition)	: 4660
B) Front Overhang	: 1350
C) Rear Overhang (As per new definition)	: 670
C1) Rear Overhang (As per old definition)	: 1243
D) Overall Length	: 8230
E) Overall Height (Cab)	: 2700
F) Overall Width (Cab)	: 2475
G) Overall Width (Rear Tyres)	: 2494
H) Wheel Track - Front	: 2020
J) Wheel Track - Rear	: 1856
K) Front Axle to Back of Cabin	: 760
L) Approach Angle	: 30°
M) Departure Angle	: 64°
N) Min Ground Clearance - Front	: 280
O) Min Ground Clearance - Rear	: 270
P) Frame Width	: 864
Q) Distance between front axles	: 1750
R) Distance between Rear axles	: 1350
S) Distance between front axles to rear of air intake bracket	: 1000
U) Distance between Center of rear axles to reference line of Rear overhang (As per old definition)	: 102

WEIGHTS (Kgs)

	Unladen*	Laden (CMVR)
Front Axle(Axle1& Axle 2)	: 6090	12000
Rear Axle	: 6470	19000
Total	: 12560	31000

*With 20 cu.m Box Body

ENGINE

Model	: CUMMINS – B 5.9 180 31 - BS III
Make	: Tata Cummins Ltd. - Jamshedpur
Type	: Compression ignition Turbocharged & Intercooler, Water Cooled, DI - Diesel Engine
No. of Cylinders	: 6nos Inline
Bore x Stroke	: 102 x 120 mm
Displacement	: 5883 CC
Max Power	: 132 KW (178 BHP) @ 2500 Rpm
Max Torque	: 675 Nm @ 1500 Rpm
Compression Ratio	: 18:01
Oil Sump Capacity	: 15.4 Ltrs
Air Filter	: Dry type Remote Mounted
Oil Filter	: Full Flow Paper Type
Fuel Filter	: Single filter with water separator
Fuel Injection Pump	: Rotary FIP
Fuel Tank	: 240 Ltrs

CLUTCH

Setco, Single dry plate Coil spring type 380mm Dia clutch, Hydro pneumatically operated.

GEAR BOX

Model: Eaton 9S FS-6209X GB- Synchronesh
Speed Ratios
Crawler – 12.64, I – 8.81, II – 6.55, III – 4.77, IV – 3.55
V – 2.48, VI – 1.85, VII – 1.34, VIII – 1, Reverse – 13.21

PROPELLER SHAFT

No of shafts: 3 (1 Center Bearing Shaft, Drive Shaft and Inter axle shaft between two rear axles)
XS Flange -GB to rear Axle,

REAR AXLE

MERITOR MT26-1495 - Fully floating Tandem Rear Axles – Both Driven Hypoid Bevel Gears with Inter axle diff. lock – air operated. Ratio: 6.17

FRONT AXLE

Forged I Section – Reverse Elliot type – 2 Nos
Make: Meritor / FAW

FRAME

HSLA Steel, Ladder Type Bolted Cross members.
Frame Side Member: 270 x 82 x 7mm Channel and Fully reinforced with 7mm thk flitch
No. of Cross members: 6

STEERING

Twin Steerable Front axle.
Integral Power Steering with UJ, ZF 8046.
Gear Ratio 26.2:1 Adjustable steering wheel
Steering Wheel Dia: 470 mm
Optional: Hubei Forni, Gear Ratio 26.7:1

SUSPENSION

Front: 2 Semi elliptical leaf springs.
Span: 1650mm at first front axle and 1600mm at second front axle Shock absorber only on first front axle
Rear: Fully articulated inverted Semi elliptical leaf Springs on Tandem Bogie Trunnion & with Torque rods.
Span: 1350mm

WHEELS & TYRES

Rims : B7.5 x 20 – 10 Bolts, Spigotted
Tyres : Front : 10.00 – 20, 16 PR – 4 No's (Rib)
Rear : 10.00 – 20, 16 PR – 8 No's (Lug)
Spare: 10.00 – 20, 16 PR - 1 No (Rib)

BRAKES

Service Brakes: Pneumatic, Foot operated, Dual line on all wheels with Automatic slack adjuster
Parking Brake: Hand operated spring actuated on both Rear Axles Engine Exhaust Brake: Butterfly type, provided

ELECTRICAL SYSTEM

System : 24 Volt (Negative Earth)
Alternator: 75 A
Battery: 2 x 12V x 100 Amp hr (20 hr rating) - A/C
Wiper Motor – Electrically operated with 3 Blade wiping system

CABIN

Fully furnished, Hydraulic Tilttable Sleeper semi suspended Cab with A/C
Seating capacity: 2 in all

BODY & TIPPING SYSTEM

All steel welded body construction with Automatic Tail gate. Capacity – 20/18/16 Cu. m Box body
4 Stage Single Ram, Front end Tipping - Max tipping angle 51°

PERFORMANCE (@ 31000Kgs)

Max Speed - geared (KMPH)	: 78
Max. Gradeability (%) @ 31T	: 28.32%
Max. Gradeability (deg) @ 31T	: 12.74°
Min. Turning Circle Diameter (mm)	: 20000

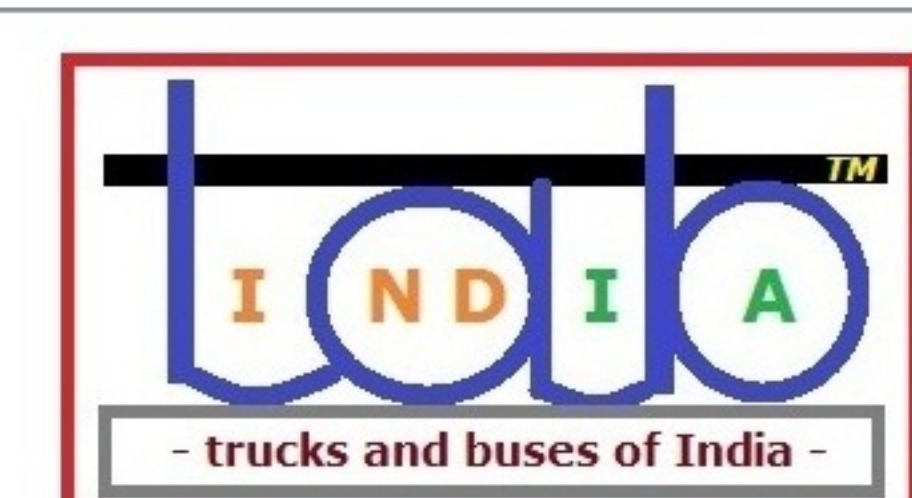
Disclaimer:

Any modification related to chassis to be done with prior approval from R&D, AMW

Technical Specifications are subject to changewithout notice



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