

**BASICS**

<b>Model name</b>	HD 5380 T (Heavy Duty 80 Tonnes Tridem)		
<b>Axle driveline configuration</b>	10x6		
<b>Nominal G.V.W.</b>	81.000kg / 81 tonnes		
<b>Nominal target payload @ Max 40 km/h</b>	60.000kg / 60 tonnes		
<b>Expected G.V.W. @ Max 40km/h</b>	± 86.000kg / ± 86 tonnes		
<b>Category</b>	"HEAVY DUTY DUMPERS"		
<b>Speed</b>	Loaded: Limited at 40 km/h		
	Unloaded: Limited at 60 km/h		
	Maximum geared speed:	57,8 km/h	79,9 km/h
<b>Certified</b>	When required, Conformité Européenne, CE		
<b>Nominal front axle loads</b>	Axle 1 13.000kg / 13 tonnes		
	Axle 2 13.000kg / 13 tonnes		
<b>Nominal rear axle loads</b>	Axle 3 14.000kg / 14 tonnes		
	Axle 4 20.500kg / 20,5 tonnes		
	Axle 5 20.500kg / 20,5 tonnes		



# HD 5380 T

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Highest Productivity



Lowest Operating Costs



Highest Safety Standards



Low Environmental Impact

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## ENGINE

<b>Model name</b>	PACCAR / DAF MX 340 C	
<b>Type</b>	MX 340 Diesel engine, turbocharged, intercooled, Heavy Duty	
	Euro 3	Euro 5
<b>Maximum performance</b>	340 kW (460 hp)/1900 rpm	340 kW (460 hp)/1900 rpm
<b>Maximum torque</b>	2300 Nm/1000-1410 rpm	2300 Nm/1000-1410 rpm
<b>Cylinder configuration</b>	6 in line	6 in line
<b>Bore x stroke</b>	130 x162 mm	130 x162 mm
<b>Displacement</b>	12.9L	12.9L
<b>Fuel system</b>	Direct injection	
<b>Governor</b>	Electronically controlled	
<b>Lubrication system</b>	Forced lubrication, oil filter with exchangeable element	
<b>Cooling system</b>	Fluid type with forced circulation	
<b>Compressor</b>	Working pressure 10 bar	

## CLUTCH

<b>Type</b>	Single dry plate
<b>Diameter</b>	430mm
<b>Operation</b>	Electronic pneumatic, self adjusting

## GEARBOX

<b>Model</b>	16AS26301T0
<b>Type</b>	AS-Tronic, automated shift, manual override
<b>Software</b>	GINAF HD Mining
<b>PTO</b>	Gearbox ZF NAS/10C, under, gears 32/25
<b>No. of gears</b>	2 x 8
<b>Ratio</b>	14.12 - 0.83 : 1

## GEAR RATIO'S

#1	#2	#3	#4	#5	#6	#7	#8	#9
14.12	11.68	9.54	7.89	6.52	5.39	4.57	3.78	3.09
#10	#11	#12	#13	#14	#15	#16	#R1	#R2
2.56	2.09	1.73	1.43	1.18	1.00	0.83	13.07	10.81

## FRONT AXLES

<b>Axle 1 &amp; 2</b>	NOG 13250 & 13251
<b>Type</b>	Non-driven steered axle
<b>Nominal technical capacity</b>	2 x 13.000 kg / 2 x 13 tonnes

## REAR AXLES

<b>Axle 3</b>	APG 14251	
<b>Type</b>	Driven steered axle, pinion and crown wheel with spiral bevel primary reduction, hub reduction, mechanical cross-axle and interaxle differential locks	
<b>Ratio</b>	6,36	8,79
<b>Nominal technical capacity</b>	14.000 kg / 14 tonnes	

<b>Axle 4 &amp; 5</b>	APS 20250 & 20251	
<b>Type</b>	Rigid drive axle, pinion and crown wheel with spiral bevel primary reduction, hub reduction, axle 4: mechanical cross-axle and interaxle differential locks, axle 5: cross-axle differential lock	
<b>Ratio</b>	6,36	8,79
<b>Nominal technical capacity</b>	2 x 20.500 kg / 2 x 20,5 tonnes	

<b>Weight for traction loaded</b>	67,9% of total mass	
<b>Weight for traction unloaded</b>	61,5% of total mass	

<b>Axle ratio</b>	6,36	8,79
<b>Max. geared speed @2100 rpm</b>	79,9 km/h	57,8 km/h

<b>Chassis frame</b>	Bolted
<b>Frame members</b>	Front and rear U members with crossbeams
<b>Reinforcement</b>	15 mm fitches on top and underneath the main frame members
<b>Front cross member</b>	Steel, 2 towing points
<b>Rear cross member</b>	Fitted with tow hook
<b>Fuel tank</b>	2 x 190 L steel, one each side
<b>Lubrication system</b>	Central grease system
<b>Exhaust &amp; After treatment</b>	Exhaust discharge right side upwards
<b>Hydraulic oils for tipper and suspension</b>	Separate tanks, behind cab
<b>Radiator</b>	Heavy Duty mining specification, location underneath cabin, continuous cooling power 175kW at max 38 °C ambient temperature
<b>Air filter</b>	Dry type with precleaner (cyclon type), plus dust indicator

<b>Axle 1 &amp; 2</b>	Parabolic leaf springs combined with air bellows, inter-axle compensation
<b>Axle 3, 4 &amp; 5 HD-HPVS</b>	Heavy Duty - Hydro Pneumatic Vehicle Suspension, suspension and compensation using hydraulic cylinders and nitrogen accumulators, <ul style="list-style-type: none"> <li>- Automatic level control,</li> <li>- Roll stabilisation during driving</li> <li>- Lateral levelling control</li> <li>- Tipper stabiliser</li> </ul>

<b>Type</b>	Dual circuit ball and nut steering, hydraulically pressurized, service / emergency pump, servo cylinders. Mechanic steered axle 1, 2 & 3
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<b>Axle 1, 2, 3</b>	14.00R20 Goodyear ORD (single mounted)
<b>Axle 4 &amp; 5</b>	12.00R24 Goodyear ORD (double mounted)

<b>ROPS</b>	When Required Roll Over Protection System, ISO 3471
<b>FOPS</b>	When Required Falling Object Protection System, ISO 3449

## TRACTION

## AXLE RATIO'S

## CHASSIS

## SUSPENSION

## STEERING

## TYRES

## ROPS/FOPS



# HD 5380 T

## BRAKES

<b>Service brake</b>	Dual circuit full air brake system. Drum brakes front and rear, EBS (Electronic brake system), ABS. Twin cylinder air compressor with heated air dryer. Automatic slack adjusters. 🚗
<b>Parking brake</b>	Spring applied on axle 3,4 and 5, pneumatically released
<b>Emergency brake</b>	Parking brake and intact circuits of service brake are used 🚗
<b>Hill Start Aid</b>	Yes 🚗
<b>Auxiliary brake</b>	+ MX engine brake, maximum performance 325 kW / 2100 rpm + ZF-Intarder, maximum performance 600 kW / 2100 rpm
<b>DHCC</b>	Down Hill Cruise Control, >30 km/h 🚗 By use of Engine brake and ZF-Intarder

## ELECTRICAL

<b>Voltage</b>	24V
<b>AC alternator</b>	80A, 2.24 kW
<b>Batteries</b>	2 x 12V, 180 Ah
<b>Speed limiter loaded</b>	40 km/h 🚗

## CABIN

<b>Exterior</b>	Mechanically suspended Day Cab with steel bumper, tinted glass and electric window openers. Main mirrors and wide angle mirrors electrically heated. Cab width 2300 mm; Electric door lock co-driver, 2 keys
<b>Cab interior</b>	Adjustable steering column (rake and height), luxury air suspended drivers seat, three point type of safety belts, storage compartments above windscreen, centre console with air outlets, cigarette lighter (12V), ashtray and 24V terminal, central storage compartments, air-conditioning
<b>Instrument panel</b>	Fuel gauge, water temperature gauge, air pressure gauges, rev. counter, illuminated actuators and control lights for (among others) dipped headlights and main beam, direction indicators, rear fog light, parking brake, central LCD display for (among others) oil pressure, oil level, water level and water temperature, turbo boost, alternator charge, board computer with fuel consumption, trip distance

## COLOUR

<b>Colour cab and tipper</b>	GINAF Yellow RAL1028, with black portions
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## PAYLOAD DESIGN RULE

<b>Target payload: 60t @ 40 km/h</b>						
<b>Developed to meet the international 10/10/20 mining standard @ max 18% slope</b>						
<b>"No more than 10% of payloads may exceed 110% of the truck's target payload and no single payload shall ever exceed 120% of the target payload"</b>						
<b>Maximum performance &amp; safety in its class</b>	<table border="1"> <tr> <td>48t</td> <td>54t</td> <td>60t</td> <td>66t</td> <td>72t</td> </tr> </table>	48t	54t	60t	66t	72t
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## ADDITIONAL SAFETY ITEMS

<b>Overload vehicle speed</b>	At more than 20% overload, vehicle speed max 3km/h 🚗
<b>BSC</b>	Blind Spot Control: Wide angle camera system, rear view and right side 🚗

