



GRAELION
multi purpose offroad vehicle



READY FOR EXTREME WORKS.

ITALIAN STYLE.

STEMMING FROM TEKNE'S THIRTY-YEAR EXPERIENCE IN THE FIELD OF INDUSTRIAL AND SPECIAL VEHICLES, GRAELION IS A MULTIPURPOSE 4X4 7.5T HEAVY DUTY CHASSIS CAB, WHICH CAN BE CONFIGURED AND INSTALLED FOR A VARIETY OF USES.

TEKNE DESIGNED THE WHOLE VEHICLE, AND PRODUCES IT IN ITS FACTORIES IN ITALY.

SO MANY VERSIONS AVAILABLE: MINE/CONSTRUCTION, THREE-WAY TIPPERS, DEMOUNTABLE, CRANES, AERIAL PLATFORMS, FIRE-FIGHTING, AMBULANCE, CIVIL PROTECTION, WASTE COLLECTION, WINTER SERVICE AND MANY OTHERS, BESIDES "CHASSIS CAB" VERSION AVAILABLE TO BODY BUILDERS.

SECURITY

THE CAB, SINGLE OR DOUBLE, SEMI-ADVANCED, IS MADE WITH AN ELECTRO-GALVANIZED STEEL SHEET STRUCTURE OF HIGH STRUCTURAL STRENGTH.

STRENGTH AND RELIABILITY

THE ENGINE IS A 3 LITER TURBO DIESEL FPT, 175 HP (129 KW), WITH A TORQUE OF 430 NM @ 1600 RPM AND WITH EMISSIONS COMPLIANT WITH THE EURO 6 STEP C STANDARD. THE TRANSMISSION IS AVAILABLE BOTH IN THE 6-SPEED MANUAL VERSION (IVECO / ZF) AND IN THE AUTOMATIC VERSION WITH TORQUE CONVERTER (ALLISON). THE TRANSFER CASE, DESIGNED BY TEKNE, HAS TWO RATIOS, FOR ROAD OR OFF-ROAD USE, ELECTRO-PNEUMATIC DRIVE AND VARIOUS POSSIBILITIES OF POWER TAKE-OFFS (PTO).

VERSATILITY

WITH ITS MULTIPLE FITTING POSSIBILITIES, GRAELION IS AN INDISPENSABLE TOOL FOR PUBLIC AND PRIVATE OPERATORS IN CROSS-CUTTING USES, FROM MONING/CONSTRUCTION TO FOREST USE, FROM FIREFIGHTING TO PUBLIC MAINTENANCE AND SUPPORT IN AREAS THAT ARE DIFFICULT TO ACCESS.

OFFROAD STAR

GRAELION HAS PORTAL AXLES, WITH FINAL REDUCTION TO THE HUBS; COMBINING OVER 450MM HEIGHT FROM THE GROUND, LOCKABLE DIFFERENTIAL AND GENEROUS SINGLE-TRACK TIRES, THE VEHICLE IS AT EASE IN ANY OFF-ROAD MISSION.

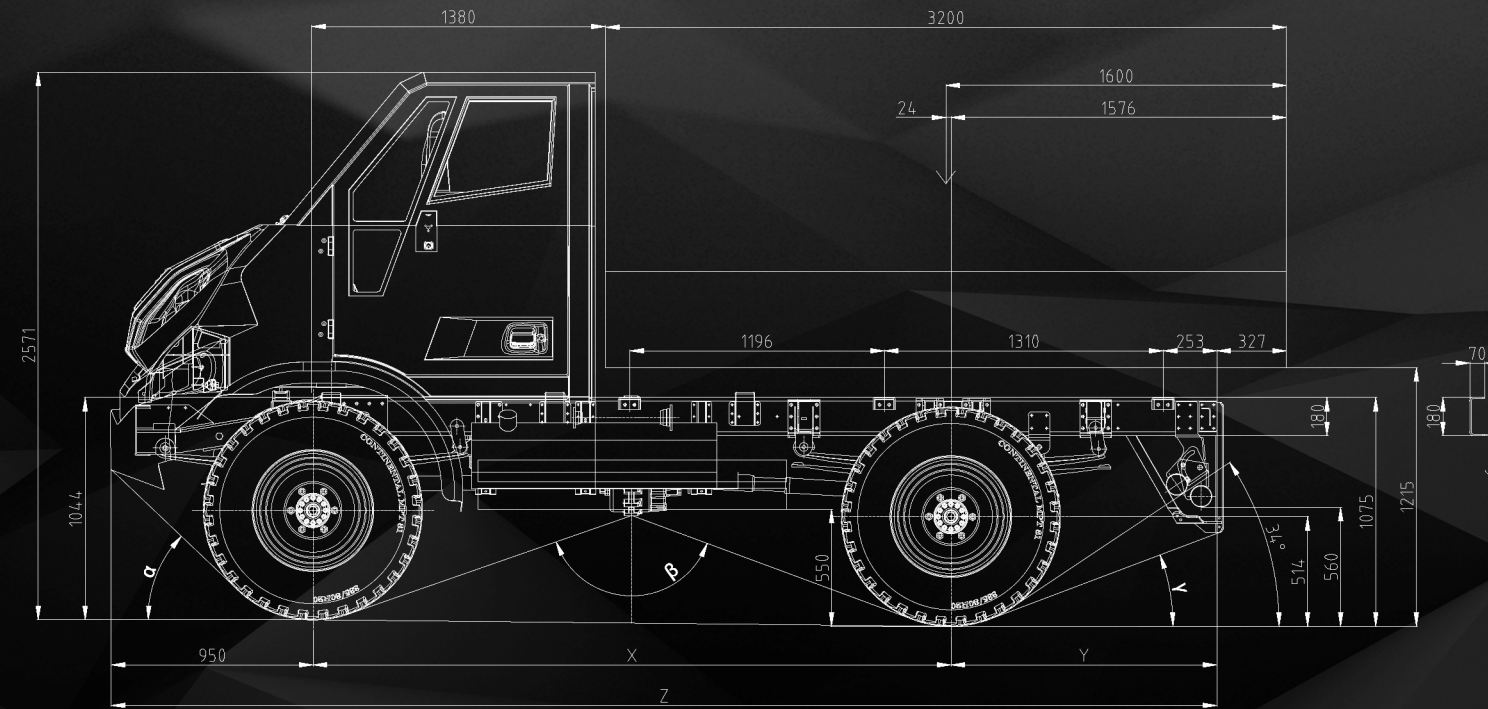
A LITTLE BIG VEHICLE

MORE COMPACT DIMENSIONS TO FACILITATE MANEUVERS EVEN IN TIGHT SPACES. WIDE AVAILABILITY OF WHEELBASES (FROM 3000 TO 4250MM). GVW 7.5TON (ALSO AVAILABLE IN 6TON VERSION).

MADE IN TEKNE

CHASSIS, CAB, AXLES, TRANSFER BOX AND ELECTRICAL SYSTEM ENTIRELY DESIGNED IN TEKNE.





Main characteristics	
Driveline	4x4
Engine	FPT Iveco, 3.0L Turbo Diesel - Emissions compliant to Directive Euro VI step C Max power 173 Hp / 129 kW @ 3500rpm Max torque 430Nm @ 1600rpm
Transmission	std: Manual FPT 2840.6, 6+1 speed opt: Automatic Allison 1000, 6+1 speed
Transfer case	Mechanical with two ratios (fast/slow). This results in 12 forward gears and 2 reverse gears for on- and off-road. Lockable differential. Provision for PTO
PTO (opt)	Depending on requirements and applications, power take off is available up to 55kw from Gearbox, Transfer box, Front engine pulley, Rear engine
Axles and Suspensions	Rigid type portal axles with parabolic leaf springs and telescopic double acting shock absorbers. Lockable Differential
Brake system	Hydraulic braking with 4 discs dia 350x30, double caliper, ABS
Tires	std: 335/80R20, Continental MPT81, single - truck tires
Steering	Hydraulic assisted power steering
Electrical System	Battery: 12V -110 Ah Alternator: 14V -140A Starter: 2,5kW
Chassis frame	Special steel with high elasticity limit Two flat and parallel side members; C section; Cross members bolted to the frame 70l Fuel Tank stainless steel, opt. 140l stainless steel
Cab	Robust steel construction with anti-corrosive surface protection. Acoustic and thermal insulation. 2 ergonomic seats with 3-point safety belts. Air conditioning system. Electric window regulator.

Dimensions, Weights and Performances						
X - Wheelbase (mm)	3000	3250	3500	3750	4000	4250
Total Length (mm)	5194	5529	5929	6394	6794	7200
Max Width (mm)	2020 (mirrorless)					
Total Height (mm)	2575					
Ground Clearance (mm)	450					
α - Front approach	44°					
(180 - β) - Ramp Breakover	39°	37°	37°	37°	36°	35°
γ - Angle of departure	37/31°	35/29°	32/26°	30/23°	27/21°	25/19°
Gross Vehicle Weight (Kg)	7500					
Max load on front axle (Kg)	4000					
Max load on rear axle (Kg)	5500					
Tare, curb weight (Kg)	3400	3425	3450	3475	3500	3525
Max climbing gradient	min 60%					
Fording depth (mm)	800					
Maximum speed (Km/h)	100					



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