

TPA90 models



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Multipurpose Airport Tractor

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Multipurpose Airport Tractor

Specifically designed to move today's corporate and military aircraft, the ARIS **TPA90** Multipurpose Tractor range is the most effective and high performing vehicle on the military specialized market.

The range diversifies from one heavier model (HD), 54000 N (12140 lb) drawbar pull capacity, to a lighter model (L) up to 30000N (6750 lb) drawbar pull capacity.

Due to its modular architecture, the 90 series meets different operational requirements in the frame of the airport logistic, with the following options:

- rear wheel drive or four wheel drive
- drive line with national or international brand engines, diesel (F-54) or kerosene (F34) type according to Stanag 4362
- engine power from 70 to 96 kW
- mechanical transmission, with electric or automatic starting, with torque converter or hydrostatic with continuous change converter
- front steering system or AWD performing:
 - opposed angle to obtain the minimum steering radius
 - same direction for side movements
 - possible use of only front or rear tyres, for conventional driving
- full leaf spring suspension.

The 90 series range offers the following features:

- disk brake system on the four single wheels
- tilting engine hood
- tilting cabin (or cabin base in case of soft top) for easy access to transmission items
- ergonomic operator seat and hydraulic power steering allowing smooth and safe operations
- large use of "off-the-shelf" components thereby reducing the recurring maintenance operations
- max transfer speed changing according to the model and higher than 33-36 km/h
- operation range higher than 5 continuing hours.

Note: the full 90 series range is homologated according to in force regulations in the pertinent class.

Available models:

Model	Max drawbar pull ⁽¹⁾		Engine Power min	GVW min
	[N]	[lb]	[kW]	[kg]
90 L	30.000	6.750	70	5.200
90	35.000	7.868	96	6.150
90 HD	54.000	12.140	96	7.500

(1) obtained with 0,8 traction coefficient and max 3% longitudinal slope

Main features:

	M.U.	90 L	90	90 HD
Max length ⁽¹⁾	mm (min - Max)	3443 ÷ 3975	3523 ÷ 4045	3523 ÷ 4037
Max width	mm	1800	1800	1800
Wheelbase ⁽¹⁾	mm	2090	2090	2090
Max height ⁽¹⁾	mm	2350	2350	2390
Ground clearance ⁽¹⁾	mm	215	215	215
Approach angle ⁽¹⁾	°	21	21	21
Departure angle ⁽¹⁾	°	21	21	21
Turning radius ⁽²⁾	mm Max	3550 ÷ 6550	3550 ÷ 6550	3550 ÷ 6550
Transfer max speed ⁽³⁾	km/h	33	36	36
Operating conditions ⁽⁴⁾	°C (min - Max)	-32 ÷ +49	-32 ÷ +49	-32 ÷ +49
Transmission	H=Hydrostatic A=Automatic M=Mechanical E=Electrical	H/A	H/A	H/A
Engine	I=IVECO; C=Cummins P=Perkins; V=VM	I/C/P/V Diesel 4 stroke	I/C/P/V Diesel 4 stroke	I/V Diesel 4 stroke
Electrical system ⁽⁵⁾	V	24	24	24
Suspensions	B=Leaf spring I= Independent wheels	B	B	B
Braking system (on four wheels)		disk	disk	disk
Operating range ⁽⁶⁾	hrs	≥ 5	≥ 5	≥ 5
Cabin, seats	C= closed A= soft-top	C/2; A/2	C/2; A/2	C/2; A/2

(1) Dimensions without tow accessories, depending on drive type, cabin and tyres

(2) AWD steering model performance

(3) On level ground (0%)

(4) STANAG 2381. Guaranteed performance: + 54°C with upgraded cooling system

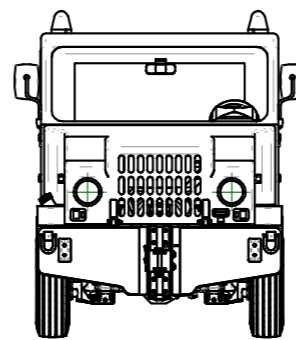
(5) 24V for military vehicles, according to Stanag 2601 and 4381; 12 Vcc electrical system option for HD series

(6) Computed with engine max torque

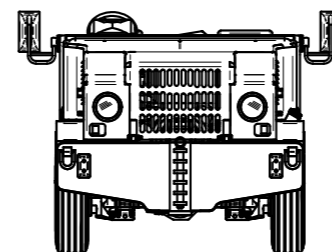
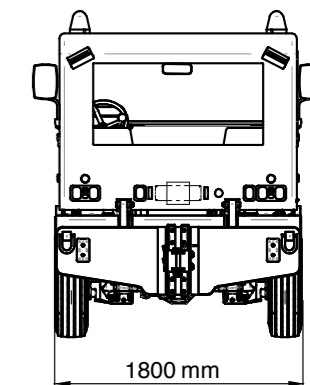
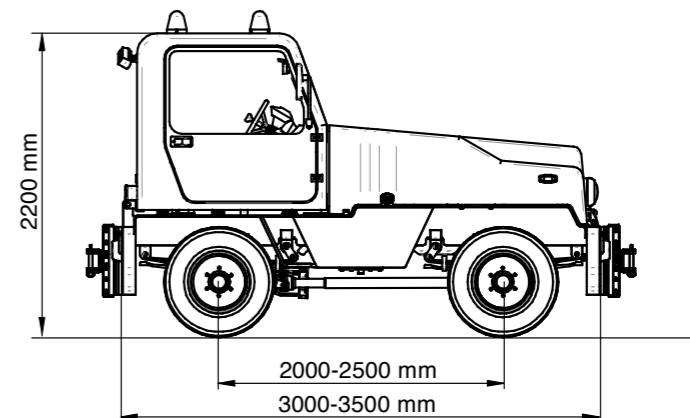
Note: +/- 5% tolerance for dimensions and weights



TPA 90



TPA90 HD



TPA90 HDSoftTop

