

»PHOENIX« AST-2P/X  
TECHNICAL DATA



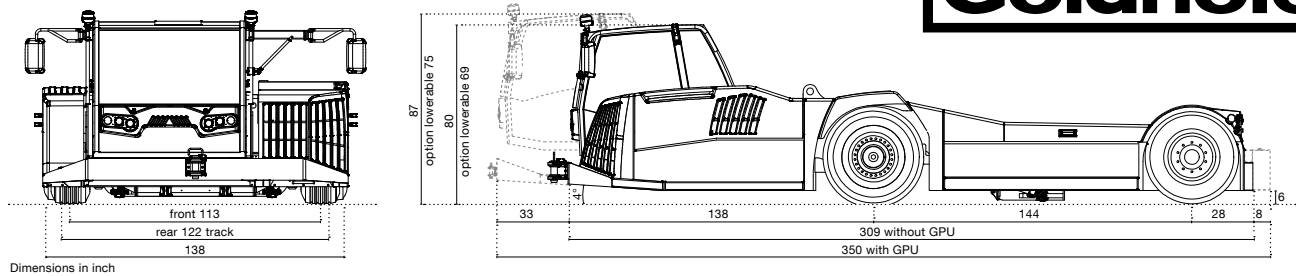
4TH GENERATION:

Using latest technologies based on more than 30 years of experience with distinct focus on TCO.  
Wide aircraft range for pushback, intergate and long distance maintenance towing. Nose-gear lifted and released in record time without pick-up system touching the ground. Unique hydrostatic drive system with differential lock for best all-weather operation.

|                  |   |                                    |                                    |                      |                       |                                 |                                 |                                       |                |           |   |           |             |   |      |                        |      |                         |            |  |
|------------------|---|------------------------------------|------------------------------------|----------------------|-----------------------|---------------------------------|---------------------------------|---------------------------------------|----------------|-----------|---|-----------|-------------|---|------|------------------------|------|-------------------------|------------|--|
|                  | Embraer 170/175/190/195 (incl. E2 versions) | Bombardier CS100 (Airbus A220-100) | Bombardier CS300 (Airbus A220-300) | B737 -300 up to -900 | B737 Max 7/8/200/9/10 | DC9-20 up to -50/MD8x/MD9x      | B717                            | A318/319/320/321 (incl. Neo versions) | B757 -200/-300 | A300/A310 | B767 -200/-300                                    | B767 -400 | DC-10/MD-11 | A330 -200/-300/-800/-900 & A340 -200/-300 | B787 | B777 -200/-200 ER/-300 | A350 | B777 -200 LR/-300 ER/-F | Comac C919 |  |
| AIRCRAFT RANGE   | ● <sup>[1]</sup> <sup>[2]</sup>             | ●                                  | ●                                  | ●                    | ●                     | ● <sup>[1]</sup> <sup>[2]</sup> | ● <sup>[1]</sup> <sup>[2]</sup> | ●                                     | ●              | ●         | ●   | ●         | ●           | ●   | ●    | ●                      | ●    | ●                       | ●          |  |
| DEADWEIGHT       | + approx. 35,500 lbs                        |                                    |                                    |                      |                       |                                 |                                 |                                       |                |           | + 40,800 lbs (with ERJ or/and GPU) <sup>[1]</sup> |           |             |   |      |                        |      |                         |            |  |
| MTOW             | + 776,000 lbs                               |                                    |                                    |                      |                       |                                 |                                 |                                       |                |           |   |           |             |   |      |                        |      |                         |            |  |
| LIFTING CAPACITY | + 84,300 lbf                                |                                    |                                    |                      |                       |                                 |                                 |                                       |                |           |   |           |             |   |      |                        |      |                         |            |  |

<sup>[1]</sup> Specific vehicle configuration necessary for this aircraft  
<sup>[2]</sup> with ERJ or/and GPU, vehicle length 350"





Dimensions in inch



## ENGINE CUMMINS

|                        | EU STAGE IIIA<br>US TIER 3<br>Inline 6 | EU STAGE IV<br>US TIER 4F<br>Inline 6 | EU STAGE V<br>US TIER 4F<br>Inline 6 |
|------------------------|--|---------------------------------------|--------------------------------------|
| AST-2P<br>up to 16 mph | QSL9<br>Type C305<br>304 hp            | QSL9<br>Type C310<br>310 hp           | QSL9<br>Type C310<br>310 hp          |
| AST-2X<br>up to 20 mph | Type C365<br>365 hp                    | Type C380<br>380 hp                   | Type C390<br>390 hp                  |



## TURNING RADIUS TRACTIVE FORCE

|        |   |
|--------|---|
| + 380" | + 405 in (with ERJ or/and GPU) <sup>[2]</sup> |
|--------|---|

## TRANSMISSION

|  |
|--|
| + 4x2 closed Loop hydrostatic drive system |
|--|

## AXLES

|  |
|--|
| + Kessler driven front steering axle with planetary drives in the wheel hubs and differential lock |
|--|

## STEERING SYSTEM

|                        |  |
|------------------------|--|
| + Front-wheel steering | + Emergency steering supply by accumulator |
| + Steer by wire system |  |

## TIRES

|                             |                            |
|-----------------------------|----------------------------|
| + Front axle R22.5 2x445/65 | + Rear axle R22.5 2x385/65 |
|-----------------------------|----------------------------|

## BRAKES

|  |
|--|
| + 2 circuit disk brakes at front axle  |
| + 3rd circuit at drum brakes rear axle |

## HYDRAULIC SYSTEM

|                                     |                        |
|-------------------------------------|------------------------|
| + Brakes, steering and drive system | + Cabin-lift and jacks |
|-------------------------------------|------------------------|

## ELECTRIC SYSTEM

|                         |                                  |
|-------------------------|----------------------------------|
| + Alternator 24 V/120 A | + Battery capacity 2x12 V/154 Ah |
|-------------------------|----------------------------------|

## CABIN

|                                       |                                 |
|---------------------------------------|---------------------------------|
| + 2 men cabin                         | + 180° turning seat and cockpit |
| + Mechanical parallelogram suspension |                                 |



## OPTIONS EXAMPLES

|                               |  |
|-------------------------------|--|
| + Cabin lowering              | + Hydro-pneumatic parallelogram cabin suspension |
| + Air conditioning            | + Onboard lifting jacks                          |
| + Auto-lube                   | + And many more                                  |
| + Winterization-kits          |  |
| + GPU (90 kVA) <sup>[2]</sup> |  |

<sup>[2]</sup> with ERJ or/and GPU, vehicle length 350"

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