



## CABLE CRANE CARRIAGE GSK 160

**we solve your  
transport needs.**

## Cable Crane Carriage GSK 160

The new motorized carriage GSK 160 is part of our cable crane system which was used amongst others at the Morano 48" project with SICIM in Italy.

The transportation of 900 m 48" pipes, welding sets, 8.500 tons of padding material, 300.000 sandbags and all necessary equipment was successfully completed using our new GSK 160.

The cable crane carriage GSK 160 is equipped with 2 independent single controllable lifting winches. This simplifies lifting pipes and other equipment up to 16 tons into deep slopes. With this new carriage it is possible to fit the pipes into the welding clamp without the need for any additional equipment, such as excavator or side boom. With the new GSK 160 we are able to bring the single pipe in each requested position up to 85° steep slopes.



## Specifications

|                         |   |
|-------------------------|---|
| <b>type:</b>            | GSK 160   |
| <b>payload:</b>         | max. 16,0 to (2 x 8,0 to)   |
| <b>skyline:</b>         | ø 40 to 50 mm (double - track)  |
| <b>lifting height:</b>  | max. 120 m  |
| <b>rope speed:</b>      | 0-0,75 m / sec. at 40 KN<br>0-0,35 m / sec. at 80 KN<br>0-0,17 m / sec. at 160 KN   |
| <b>dimensions:</b>      | 5,0 x 1,0 x 3,60 m (L x W x H)  |
| <b>weight:</b>          | cable crane: 2.000 kg<br>chassis: 1.000 kg<br>wire ropes: depends on necessity  |
| <b>engine:</b>          | Hatz Diesel 53,1 KW (73 PS), air cooled   |
| <b>drive train:</b>     | electrically controlled variable hydraulic pumps<br>2 independent lifting drums with rope winding device; lifting drums can be operated either single or synchronous.   |
| <b>chassis:</b>         | 16 rolls on skyline   |
| <b>braking systems:</b> | multiple disc brake and spring loaded bandbrake; hydraulically lifted; mounted directly onto the drum   |
| <b>safety systems:</b>  | <ul style="list-style-type: none"> <li>- skyline guards (4 pcs)</li> <li>- automatic engine stop at loss of oil pressure or extreme declination</li> <li>- overspeed and too low speed protection</li> <li>- limiting switch for max. load and load control limiter</li> <li>- control of hydraulic oil level and temperature</li> <li>- control of engine oil pressure</li> <li>- battery check</li> </ul> |
| <b>control:</b>         | radio remote control with 1 to 3 transmitters<br>display on transmitter for: <ul style="list-style-type: none"> <li>- load control</li> <li>- fuel tank</li> <li>- oil temperature</li> <li>- voltage</li> <li>- capacity of the battery</li> <li>- operating hours</li> <li>- error messages</li> </ul>  |



# Cable Crane Systems



## The most important cable crane features at a glance:

- ideal for high **mountain terrain**, hilly countryside or inaccessible, environmentally sensitive terrain with difficult access
- travel distances of up to **2.500 m per crane**
- payloads of up to **25 tons**
- Up- and downhill transport with loading and unloading options at any point along the track
- Exact alignment through cam tracks
- Unaffected by climactic conditions (rain, snow, heat, wind, fog)
- Extension of the working season (operation in winter or during the rainy season in the tropics)
- Suspended loads allow **environmentally friendly transport** that cannot damage the ground
- **Quick availability** for temporary transport projects thanks to simple assembly and disassembly
- Flexible layout options e.g. no restrictions in planning transport jobs
- Less road construction (cost savings, reduction of environmental damage)

## Environmental considerations speak for LCS cable cranes:

Our cablecrane system almost totally eliminates environmentally damaging trenches in critical areas.

- smooth **material transport without ground contact**
- reduced track width:
  - o heavy equipment - requires a 30 m track
  - o LCS positioned directly above the pipeline trench - **only 4 m track required!**
- Cost reduction in track laying (move and restore earth)
- **Minimal clearance costs**
- Ground infill and approvals sharply reduced
- **less expense** for reforestation, planting, etc.



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