

# PRAGA V3S

LOG AND BAR FREIGHT ARTICULATED SET

Maximum permissible payload: 10 metric tons  
Minimum length of log/bar freight: 6 metres  
(20 ft).



The

# PRAGA V3S

## Staked Swivel-Bun Log and Bar Freight Motor Train

is intended for transportation of long loads such as for instance log timber, poles, bar steel of various profiles etc., up to the total weight of 10 metric tons and minimum length of 6 metres (20 ft.).

The trailer tractor of this articulated set is a specially modified Praga V3S Platform Truck of excellent ability to master all possible obstacles in the difficult terrain, such as slopes, slippery muddy and sandy ground etc. Therefore, this commercial vehicle is specially constructed for heavy-duty service. All three axles of the trailer tractor are driving ones, the front wheel drive being disengageable during operation in off-road conditions. Due to the constant-mesh reduction gears fitted in wheel hubs an unusually high ground clearance of 400 mm (15,75 in.) of the truck chassis has been attained. To prevent the truck wheels from sinking in a soft ground, the vehicle is provided with twin rear wheels and the truck empty weight is relatively low. The ingenious swinging suspension of the rear wheels on semi-elliptical leaf springs provides a constant touch of the truck wheels even with a very uneven ground surface. The vehicle has also an unusually resistant and flexible chassis frame, which is important for heavy-duty off-road service causing torsion, unusual

stressing and operating overload of the chassis frame. Quite outstanding is also the lateral stability of this truck — till 40° ground inclination.

The robust platform truck body specially modified for transportation of long loads is in comparison with the standard type provided with a reinforced platform framework and a double platform floor and is being delivered without the drop sides and rear gate.

Furthermore, the vehicle is equipped with an efficient double-drum motor winch for cross-hauling and stacking up for the log timber and other heavy and long loads.

The all-metal driver's cab is flexibly mounted on silent-blocks and furnished with hot-air heating and the appropriate ventilation.

For long years in heavy-duty service well-proved four-stroke, 6 cylinder air-cooled Diesel engine of 95 H. P. max. output works really reliably even under the most difficult and unfavourable climatic and operating conditions.

The gearbox in connection with the auxiliary (reduction and transfer) gearbox provide altogether 8 forward gears and 2 reverse gears. This construction achievement affects favourably the economical engine exploitation and reduction of fuel consumption.





Quick and fully safe cross-hauling and stacking of log timber by means of trailer tractor double-drum power winch.

On the reinforced load platform of the trailer tractor there is mounted a swivelling bolster with robust tiltable stanchions, adapted for easy and safe cross-hauling and stacking up long timber by means of the motor winch. The safety device of the swivelling bolster enables the operating crew to tilt the swivel stanchions down from the opposite side, when unloading long timber, thus avoiding any possible accident.



The **PRAGA V3S**  
Log and Bar Freight Articulated Set



is designed for the transportation of long loads, such as for instance long log timber, poles, girders, long metallurgical products etc.

The great advantage of this articulated set is represented by the possibility of using it successfully

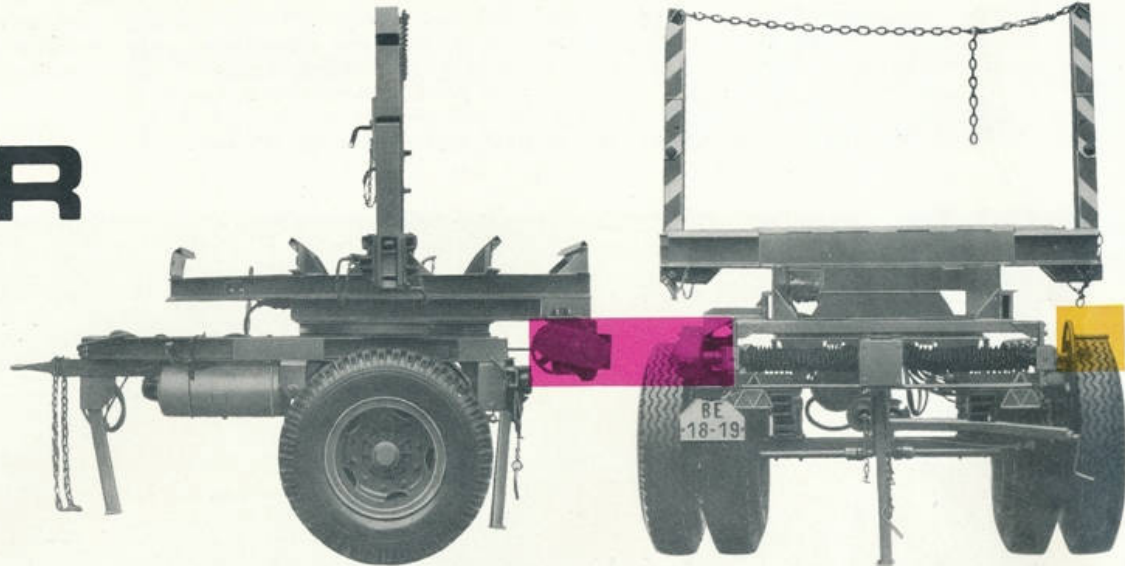
not only for the road transportation of long loads, but also in the difficult terrain with slippery muddy and sandy grounds or snowcovered grounds, with a very uneven ground surface, with big gradients and lateral inclination, as for instance in the forest, on cross-country roads etc. Therefore, this

transport articulation set finds its successful and economical application especially for the transportation of log timber in the forest economy.



The Trailer Model

# DA 5 R



## The Trailer Model DA 5 R

is intended to be applied in the set with the trailer tractor for transportation of long loads up to the maximum weight of 5 metric tons. The electrically or in emergency case hand-controlled semi-trailer steering gear (tractor trailer guiding and keeping-in device) secures the safe drive of the complete articulated set in road turnings and an easy control of the semi-trailer loaded with long load. The possibility of using the manual control of the semi-trailer steering gear is maintained for security reasons.



The **single-axle trailer, model DA 5R**, of 5 metric tons payload, is also provided with the swivelling bolster and with an



or in emergency case hand-controlled trailer steering (tractor - trailer track guiding and keeping-in device) for a safe drive of the complete long articulated set in road turnings.

### Dimensions of Trailer

length	3445 mm
width	2.362 mm
height	2,668 mm
width of span between both stanchions of the swivelling bolster	2.000 mm
ground clearance of trailer platform (unloaded)	1615 mm
medium wheel track	1,760 mm

### Weights

curb weight of the trailer	2.080 kg + 15 kg
payload of the trailer	5.000 kg
permissible top speed of the gross weight of power winch trailer	35 km/h (22 miles)

### Note:

The electrically controlled trailer steering gear (semi-trailer tractor track guiding and keeping in device) is supplied upon customer's wish either mounted on the semi-trailer or as an extra accessory.



# OPLEN 8A-01

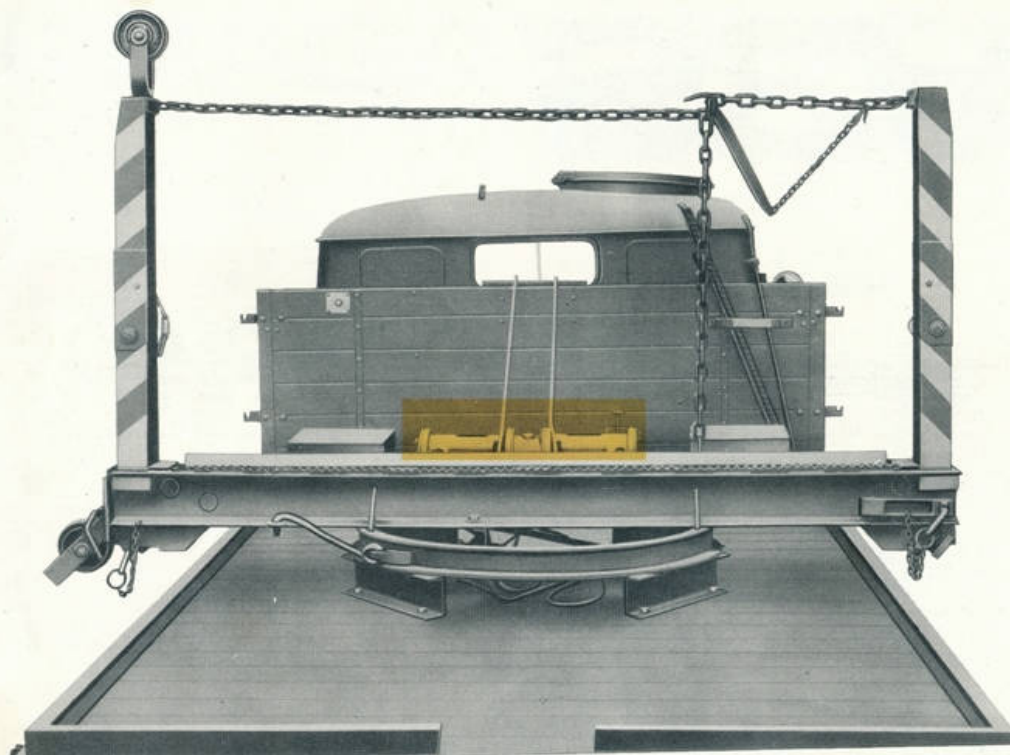
## Stanchion Swivelling Bolster, Type 8A - 01

is designed for cross-hauling and stacking of long timber or other long loads on the log articulated set.

Dimensions of the stanchion swivelling bolster (with accessories):

overall width	2.500 mm (98.42 in.)
loading width	2.280 mm (89.76 in.)
overall height of stanchions:	1.300 mm (51.18 in.)
useful max. loading height	1.090 mm (43.00 in.)

Gross weight of stanchion swivelling bolster (with accessories) 477 kg

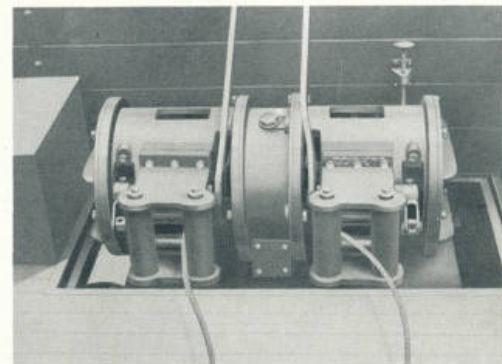


### Winch dimensions

length	870 mm
width	620 mm
height without control levers	450 mm
height incl. control levers	1.200 mm
gross weight of trailer (included accessories)	7,080 kg 330 kg (727.5 lbs)
Dimensions of winch rope power and speed	
towing rope dia	10 mm
length of rope wound on the drum	cca 35 mx2
max. permissible speed of winding	0.5 m/sec
pulling force on one rope	700 kg
pulling force on both ropes	1400 kg

### The Double-Drum Power Winch, Type TB

is designed for cross-hauling and stacking of long heavy loads on the swivelling bolster articulated set and is driven by an additional auxiliary power-take-off shaft of the tractor gearbox.



# PRAGA V3S

Heavy Duty Log and Bar Freight Articulated Set

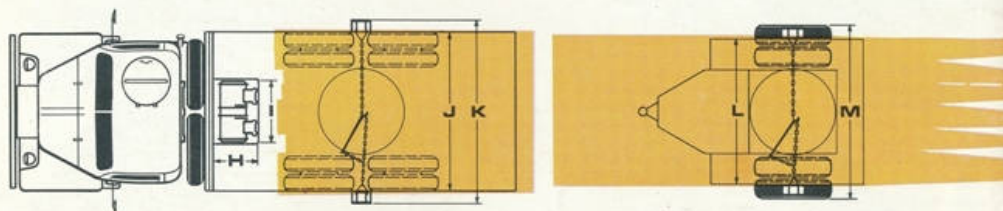
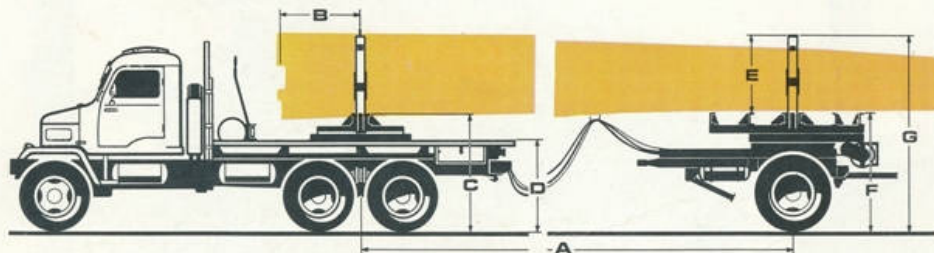
## Main Technical Specifications:

**Model and type of trailer tractor** Praga V3S, a specially modified platform truck with swivelling bolster used for transportation of long heavy loads

**Model and type of the engine** T912, four-stroke, six-cylinder, air-cooled Diesel engine with direct fuel injection, max. output 95 h. p. at 2100 r. p. m., swept volume 7.412 c. c. (452,132 cu. in.)

**Dimensions —**  
 overall length of trailer tractor 6.785 mm  
 overall width of trailer tractor 2.420 mm  
 ground clearance of loaded chassis 400 mm  
 wheel track, front/rear 1870/1.755 mm  
 wheel base 3.580+1.120 mm  
 ground clearance of the unloaded platform 1.230 mm

**Weights —**  
 curb weight of the semi-trailer tractor 5570 kg  
 max. admissible total weight of the trailer tractor in the terrain (off-road) 11.600 kg



### Manufacturers



of the Praga V3S swivelling Bolster Platform in the forest execution:

**AVIA, n. p., Praha 9, Letňany**



of the swivelling Bolster Trailer with accessories and assembly of the whole Swivelling Bolster Articulation Set  
**STATNÍ LESY, n. p., průmyslové výroby, Chrudim**

### Dimensions

A	4.500 to 12.000 mm	H	700 mm
B	about 1.000 mm	I	1.080 mm
C	1.620 mm	J	2.280 mm
D	1.230 mm	K	2.500 mm
E	1.090 mm	L	2.000 mm
F	1.543 mm	M	2.326 mm
G	2.590 mm	Overall length of the articulated set (unloaded)	10.170 mm

Alterations and modifications reserved.

# MOTOKOV

PRAHA ● CZECHOSLOVAKIA