The new **KEYOU HICE.40** – zero emission and economical at the same time

The smarter Way to beat Diesel

KEYOU
emission-free technology.



The new KEYOU HICE.40
Built on Mercedes-Benz Actros.
Powered by H2 Engine.
Engineered by KEYOU.

Our offer for fleet operators:
€250,000
(Net price; leasing on request)

When TCO matters, KEYOU wins.

It is possible: As a fleet operator, you can run your fleet CO2-free while remaining cost-efficient. Benefit from the new **HICE.40** with its KEYOU-inside hydrogen engine and from our strong partnership with Daimler Truck: the chassis and base engine come from one of the world's leading truck manufacturers.

Sustainability must also make economic sense. And that is exactly where we come in. Gain decisive competitive advantages with our KEYOU **HICE.40** tractor unit, which enables you to make an economically viable switch to a CO2-free vehicle. With an individual TCO calculation, we would be happy to show you how you can beat diesel.

The KEYOU HICE.40 – the practical & robust long-haul solution:

- **H2 Engine:** 12.8 L
- **Max. power:** 350 kW @ 1,600 rpm
- **Max. torque:** 2,100 Nm @ 1,000 – 1,400 rpm
- **Configuration:** 4x2 tractor unit
- **Chassis:** Mercedes-Benz Actros 1848 LS
- **Hydrogen storage:** 350 bar
- **Range:** up to 650 km
- **Refueling time:** approx. 20 minutes
- **Toll exemption:** until June 2031
- **Approved for:** ADR transports type FL (AT)
- **Payload:** unrestricted
- **Service life:** equivalent to diesel

- Available 2028 -

Be among the first.

We are happy to advise you on selecting the right vehicle for your requirements – whether a 4×2, 6×2 or Lowliner configuration. We also support you with questions relating to service and maintenance, as well as the current and planned hydrogen refuelling infrastructure in Germany.

Interested? Simply email us at sales@keyou.de.

KEYOU GmbH | Arnulfstr. 60 | 80335 Munich, Germany | info@keyou.de | www.keyou.de

DATA SHEET

KEYOU HICE.40 4X2-SEMI-TRAILER TRACTOR
WITH KEYOU-INSIDE HYDROGEN COMBUSTION ENGINE

Drivetrain

H2 Engine	KY-H2 12.8 DT (Base engine: Mercedes-Benz OM 471
Engine displacement	12.8 L
Max. power	350 kW @ 1,600 rpm
Max. torque	2,100 Nm @ 1,000 - 1,400 rpm
Transmission	G 281-12/16,462-1,0; Daimler Trucks transmission with Power-Shift Advanced, driving programs Economy, Power, Predictive Powertrain Control
Rear axle transmission ratio	i = 2,533
Permanent brake	Secondary Oil Retarder, Engine Brake
CO2 emissions class	5
Emissions standard	Zero emission acc. to EU regulation 1242/2019

Hydrogen Storage System

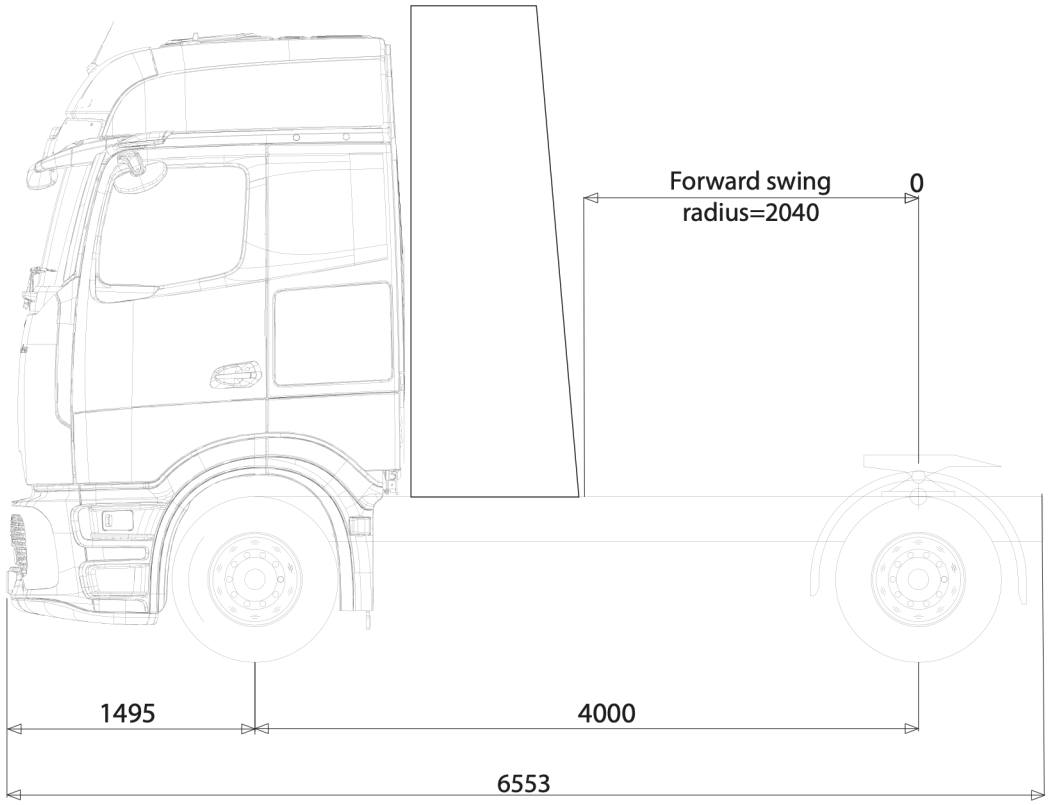
Pressure level	350 bar
Range	Up to 650 km
Filling time	Approx. 20 min

Chassis / Suspension / Cab

Base vehicle	Mercedes-Benz Actros 1848 LS
Front frame height (laden/unladen)	917 mm / 932 mm
Rear frame height (laden/unladen)	947 mm / 982 mm
Cabin	ProCabin L, Big Space, 2.500 mm, flaat floor
Wheel formula	4x2
Wheelbase	4,000 mm
Rear frame overhang	1,050 mm
Empty weight	9.74 t
Gross vehicle weight (GVW)	18 t
Gross Combination weight (GCW)	40 t
Axle load distribution (front/rear, in %), empty	69 % / 31 %
Axle loads front/rear axle(s), techn. permissible	8 t / 13 t
Front / rear axle suspension	Air / Air
Brakes	Disc brakes on front/rear axle(s), electronic brake system with ABS, TCS
Tires and wheels - front axle	385/55 R 22.5, aluminum rims 11.75 x 22.5, Speedline
Tires and wheels - rear axle(s)	315/70 R 22.5, aluminum rims 9.00 x 22.5, Speedline

Fifth wheel / loading length

Type	On customer request
Fifth wheel height	On customer request
Fifth wheel lead	0 mm
Fifth wheel load (acc. to German axle load regulations)	8,5 t
Clearance semi-trailer tractor - trailer	417 mm
Clearance semi-trailer tractor - swing-through radius trailer	100 mm
Loading length	-

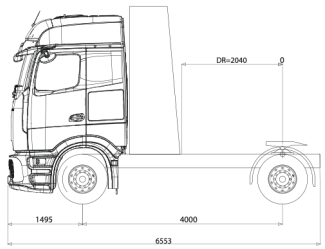


Unladen	6769 { 69%}	2976	= 9745 kg
Laden	6769 { 37%}	11501	= 18270 kg
Permissible mass	8000	11500	

KEYOU HICE.40 VARIANTS
BASED ON MB-ACTROS & MB-OM 471, 350 kW

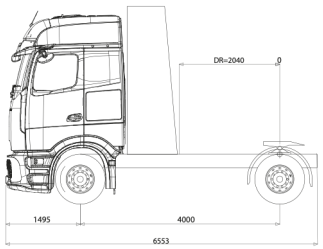
KEYOU HICE.40	4x2 STT	4x2 Lowliner	6x2 STT	6x2 Rigid truck
Wheel formula	4x2	4x2	6x2	6x2
Wheelbase	4.000 mm	4.000 mm	3.550 mm	6.100 mm
Empty weight	9,7 t	9,2t	10,2 t	11,3 t
Gross vehicle weight (GVW)	18 t	18 t	25 t	26 t
Fifth wheel lead	40 t	40 t	40 t	40 t
Sattelvormaß	0 mm	0 mm	200 mm	-
Fifth wheel load (acc. to German axle load regulations)	8,5 t	8,7 t	15,5 t	-
Loading length	-	-	-	6.750 – 8.850 mm

4x2 STT



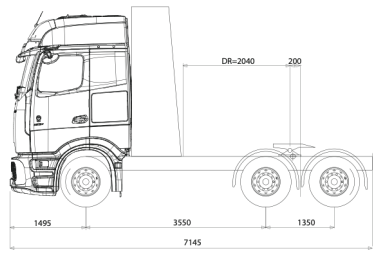
Unbeladen	6769 (69%)	2976	= 9745 kg
Beladen	6769 (37%)	11501	= 18270 kg
Zulässige Masse	8000	11500	

4x2 Lowliner



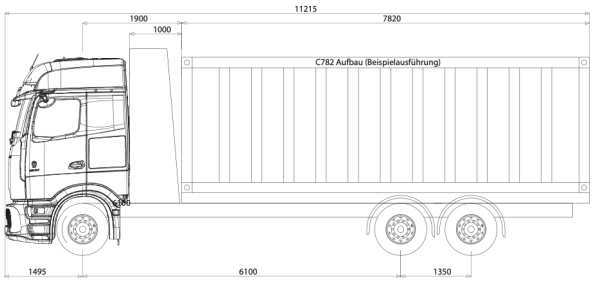
Unbeladen	6380 (69%)	2802	= 9182 kg
Beladen	6380 (36%)	11500	= 17880 kg
Zulässige Masse	8000	11500	

6x2 STT



Unbeladen	6494 (53%)	5704 (3452+2252)	= 12198 kg
Beladen	6685 (26%)	19000 (11500+7500)	= 25685 kg
Zulässige Masse	7500	19000 (11500+7500)	

6x2 Rigid truck



Unbeladen	6834 (61%)	4445 (2067+2378)	= 11279 kg
Beladen	7266 (28%)	18734 (8713+10021)	= 26000 kg
Zulässige Masse	7500	19000 (10000+11500)	

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