

FAUN

Heavy-Duty
Prime
Mover



Heavy-Duty Prime Mover



Chassis model		HZ 19.25/36	HZ 32.25/40	HZ 36.40/45	HZ 40.45/45
Model-No.		2100.09	2120.40	2140.40	2144.00
Drive		4 x 4	6 x 6	6 x 6	6 x 6
Chassis and cab kg approx.		8000	10600	11100	12900
Permissible total weight kg		20700	34000	36000	40000
Permissible front axle load kg		7400	7400	8100	9500
Permissible rear axle load kg		13300	26600	27900	30500
Saddle load including fifth wheel and superstructure kg approx.		12700	23400	24900	27100
Gross vehicle weight *** up to kg		80000	90000	130000	130000
Trailer total weight *** up to kg		80000	125000	180000	220000
Speed, max. km/h approx.		64	66	63,9	63
min. km/h approx.		3	3	2,8	3,1
Climbing ability with 3 * HP/ton kg		102000	83000	122000	152000
%		14	15,1	16,5	15,4
Tractive force * (N) kg approx.		159200	137500	207200	256300
Engine make, model		KHD F 10 L 413 F	KHD F 10 L 413 L	KHD F 12 L 413 F	KHD BF 12 L 413 F
Rating kW (DIN HP/BHP – bare engine) rpm		224 (305/332) 2500	184 (250/272) 2650	268 (365/398) 2500	335 (455/512) 2500
Torque Nm (mkg) rpm		980 (100) 1550	765 (78) 1600	1167 (119) 1500	1425 (145,3) 1500
Clutch		F & S GB 2/380 KR	F & S GB 2/380 KR	F & S GB 2/380 KR	F & S GB 2/380 KR
Torque converter					
Torque converter assisted clutch					
Gearbox model		ZF Typ 5S – 110 GP	ZF AK 6 – 75 – 3	Fuller RT 12 5 15	Fuller RT 12 5 15
Forward gears number/ratio		9/13,10 – 1,00	6/7,43 – 1,00	15/13,87 – 1,00	15/13,87 – 1,00
Reverse gears number/ratio		1/11,60	1/6,84	3/13,87 – 2,74	3/13,87 – 2,74
Transfer box model		FAUN VG 20	ZF VG – 500	FAUN VG 20	FAUN VG 20
Ratios		1,00	1,00/1,85	1,00	1,00
Axle ratios		7,949	8,10	7,949	8,801
Tyres Front Single		12.00–20 PR 18	12.00–20 PR 18	12.00–20 PR 18	12.00–24 PR 2
Rear Twin (S)		12.00–20 PR 18	12.00–20 PR 18	12.00–20 PR 18	12.00–24 PR 2
Wheel base mm		3800	4100	4500	4500
Width mm		2500	2500	2500	2750
Length to centre coupling pin mm		6840	7770	8360	8360
Height over cab mm		2900	2900	3070	3320
Height over saddle coupling mm		1535	1535	1535	1600
Cab (Driver/co-drivers)		1/2	1/2	1/2	1/2
Electrical system V		24	24	24	24
Brake system circuits/lines		2/2	2/2	2/2	2/2
Options of power units: Engine				KHD BF 12 L 413 F	
				DB OM 404	DB OM 404
				Cummins NTC 400	Cummins NTC 400
Type of transmission				ZF 4S 150 GP with WSK 400	ZF 4S 150 GP with WSK 400

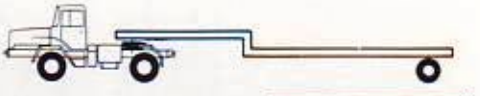
* N = Newton = 0,102 kp
1 HP = 0,736 kW
** at stall torque

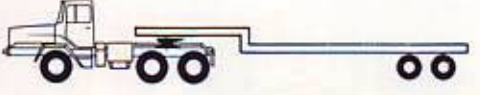
*** excessive weights can only be admitted knowing the special duty conditions
The Gradability is calculated with a rolling friction coefficient of 0,02.




	HZ 40.45/45 W	HZ 50.45/50	HZ 50.60/50 W	HZ 70.80/50 W	FS 42.75/42
	2145.00	2164.00	2165.00	2166.00	2151.38
	6 x 6	8 x 8	8 x 8	8 x 8	8 x 6
	13 700	15 500	20 500	23 000	16 000
	40 000	50 000	50 000	70 000	40 000
	9 500	19 000	19 000	30 000	17 000
	30 500	31 000	31 000	40 000	23 000
	26 300	34 500	29 500	47 000	24 000
	130 000	130 000	130 000	130 000	130 000
	250 000	300 000	300 000	400 000	200 000
	63	63	64	23,5	67
	2,1	2,4	3,8	1,4	3
	152 000	152 000	192 000	260 000	175 000
	16,4	14,5	9,2	32	12,8
	** 432 800/271 200	** 424 200/243 500	** 265 900/210 900	** 1 126 900/828 700	** 357 300/252 900
13 F	KHD BF 12 L 413 F	KHD BF 12 L 413 F	Cummins KTA 600	GM 16 V 71 TI	KHD BF 12 L 413 FC
	335 (455/512)	335 (455/512)	423 (575/600)	574 (780/800)	386 (525/557)
	2 500	2 500	2 100	2 100	2 500
750	1 425 (145,3) 1 750	1 425 (145,3) 1 750	2 126 (216,9) 1 600	2 812 (287) 1 600	1 690 (172,4) 1 750
0 KR	Allison TC 570	ZF WSK 400	Allison TC 680	Allison TC 860	ZF WSK 400
	Allison CLBT 5860	ZF 4 S - 150 GP	Allison CLBT 6061	Allison DP 8961	ZF 4 S - 150 GPA
0	6/4,00 - 0,67	8/7,97 - 1,00	6/4,00 - 0,67	6/4,24 - 0,727	8/8,14 - 1,02
	1/5,10	1/11,70	1/5,15	1/5,75	1/11,94
	ZF GA - 800/3 D	FAUN VG 20	FAUN VG 20	FAUN VG 20	ZF flanged - on
	1,30/1,85	1,00	1,24	1,00	i contained in gearbox
	10,140	8,801	8,801	27,502	7,602
20	12.00-24 PR 20	12.00-24 PR 20	12.00-24 PR 20	12.00-24 PR 20	18-22,5 x S PR 20
20	12.00-24 PR 20	12.00-24 PR 20	12.00-24 PR 20	12.00-24 PR 20	18-22,5 x S PR 20 (E)
	4 750	5 000	5 000	5 000	4 200
	2 750	2 750	2 750	2 800	3 070
	8 610	10 040	10 040	10 620	8 830
	3 320	3 320	3 470	3 800	2 690
	1 600	1 600	1 600	1 700	1 550
	1/2	1/2	1/2	1/2	1/3
	24	24	24	24	24
	2/2	2/2	2/2	2/2	2/2
	DB OM 404	DB OM 404			DB OM 404 A
400	Cummins NTC 400	Cummins NTC 400			
with					

Tractor-Semitrailer Combinations (Weights in tons)

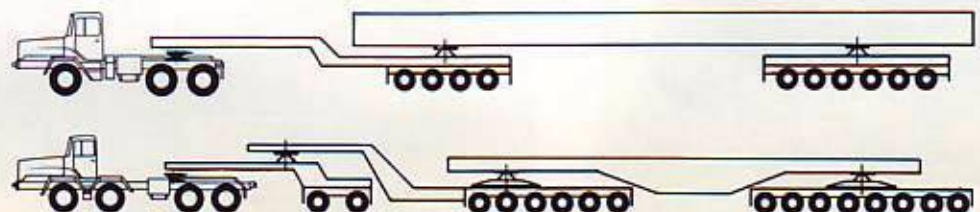
	Semi-Trailer each axle	gross vehicle weight	payload
 6-7,4 10-13,5 axle load	10-12	26- 33	14 - 19
	8-16	32- 53	19 - 35
	7,3-20	38- 80	23,5- 38

 6-10 8-20 (2x) axle load	8-30	38-105	22 - 75
	7,3-20	44- 96	26 - 70
	8-25	66-140	40 -100
	10-25	80-165	52 -125
	10-25	90-200	60 -150
	12-25	115-225	75 -170
	12-25	125-250	80 -190

 6-11 (2x) 8-18 (2x) axle load	8-20	52-100	28 - 70
	8-25	67-140	40 -100
	10-25	90-170	58 -128
	10-25	100-205	65 -150
	12-25	125-230	80 -170
	12-25	135-255	85 -190

Up to a GVW of about 130 t, commercial fifth wheels are available. Special design is possible for GVW exceeding 130 t.


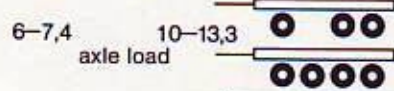



Eight-axle semitrailers are only available as platform type.


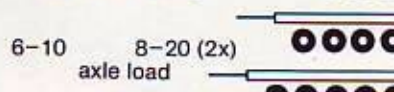

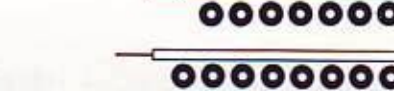


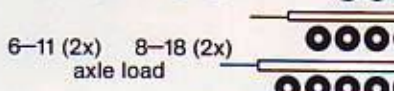



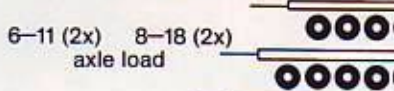
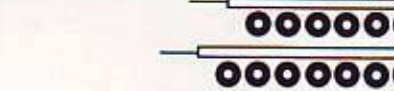




Possibilities of tractor/platform-semi-trailer combinations with more than 8 axles.

Tractor-Trailer Combinations

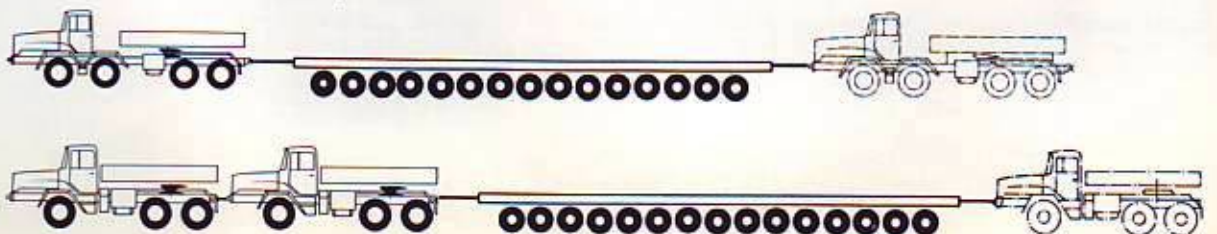
(Weights in tons)

	Trailer each axle	gross tractor weight	gross trailer weight	payload
	12-20	16	24- 40	16- 32
	12-20	16-20,7	36- 60	25- 49
	12-20	16-20,7	48- 80	33- 66
	12	20,7	72	50
	10	20,7	80	54

	12-24	22-26	48- 96	33- 81
	12-24	26-30	72-144	50-121
	12-24	26-37	96-192	66-162
	12-24	34-50	120-240	83-203
	12-24	37-50	144-288	100-244
	12-24	50	168-336	112-280
	12-24	50	192-384	130-318

	12-24	28	48- 96	33- 81
	12-24	28-40	72-144	50-121
	12-24	28-40	96-192	66-162
	12-24	28-50	120-240	83-203
	12-24	40-58	144-288	100-244
	12-24	58	168-336	112-280
	12-24	58	192-384	130-318

Long-distance transports with GVW exceeding 200 t will normally be effected using two or more tractors.



Possibilities of tractor-trailer combinations using two or more tractors.

Alternative Tyres

for models

12.00-24 Front S / Rear Tw	HZ 36.40/45	6 x 6
14.00-20 Front S / Rear Tw	HZ 40.45/45	6 x 6
	HZ 40.45/45 W	6 x 6
	HZ 50.45/50	8 x 8
	HZ 50.60/50 W	8 x 8
	HZ 70.80/50 W	8 x 8
14.00-24 Front S / Rear Tw	HZ 40.45/45	6 x 6
	HZ 40.45/45 W	6 x 6
	HZ 50.45/50	8 x 8
	HZ 50.60/50 W	8 x 8
	HZ 70.80/50 W	8 x 8
16.00-20 Front S / Rear Tw	HZ 40.45/45	6 x 6
	HZ 40.45/45 W	6 x 6
	HZ 50.45/50	8 x 8
	HZ 50.60/50 W	8 x 8

Alternative Tyres

for models

14.00-20 Front S / Rear S	HZ 36.40/45	6 x 6
14.00-24 Front S / Rear S	HZ 40.45/45	6 x 6
	HZ 40.45/45 W	6 x 6
	HZ 50.45/50	8 x 8
	HZ 50.60/50 W	8 x 8
16.00-20 Front S / Rear S	HZ 50.60/50 W	8 x 8
	HZ 40.45/45	6 x 6
	HZ 40.45/45 W	6 x 6
	HZ 50.45/50	8 x 8
16.00-25 Front S / Rear S	HZ 40.45/45	6 x 6
	HZ 40.45/45 W	6 x 6
	HZ 50.45/50	8 x 8
	HZ 50.60/50 W	8 x 8
18.00-25 Front S / Rear S	HZ 40.45/45	6 x 6
	HZ 40.45/45 W	6 x 6
	HZ 50.45/50	8 x 8
	HZ 50.60/50 W	8 x 8

Further types of engines or transmissions on demand, for HZ 70.80/50 W 8x8 power output up to 735 kW (1000 HP).

Other range of speeds on request.

Equipment available: fifth-wheel coupling for semi-trailers, trailer coupling front, trailer coupling rear, ballast box, extended driver's cab with additional bench seat for four passengers or sleeping accommodation for two.

The engine ratings indicated correspond to the particular service of the tractors. In case of special operating conditions, the output can be adapted accordingly.

For all tractors rope winch units are available with pull to the front and to the rear.

Mechanical rope winches with a drawbar pull on the first layer of 8 t, 12 t, 18 t, 24 t, 2 x 18 t.

Hydraulic rope winches with a drawbar pull on the first layer of 8 t, 10 t, 20 t, 25 t, 30 t, 2 x 20 t.

All chassis can also be supplied for service as transport vehicles, dumpers, tankers, drilling rig equipment and other special vehicles. The wheel base is selected according to the relevant requirements.



HZ 19.25/36



HZ 36.40/45



HZ 32.25/40



HZ 40.45/45



HZ 40.45/45 W



FS 42.75/42



HZ 50.45/50



HZ 50.60/50 W



HZ 70.80/50 W

FAUN-WERKE

P. O. Box 8
D-8560 LAUF A. D. PEGNITZ
TELEFON (0 91 23) 30 71
TELEX 06-26 093
F.R.G.