



Hirl Misch- und Anlagentechnik e.K. - Mixer-wagons



# Welcome to Hirl

The Hirl-Technik company developed from an agricultural undertaking, which is specialised on milk production and cattle breeding. The experience gained from dairy farming has a great impact on the development of feeding technics. Knowledge of forage systems and calf feeding are basis of the evolution of Hirl-Technik products for agriculture and industry.

Your Hirl mixer-wagon is made especially for you according to our high standards of quality, design and material. Talk to us - we will find the optimal solution for your business

Your Hirl Family



	SF <b>Vertikal Pro</b>	SF <b>Horizontal Pro</b>	SF <b>Vertikal Eco</b>	SF <b>Horizontal Eco</b>
Volume	11m <sup>3</sup> to 22m <sup>3</sup>	11m <sup>3</sup> to 18m <sup>3</sup>	13m <sup>3</sup> to 32m <sup>3</sup>	10m <sup>3</sup> to 18m <sup>3</sup>
Height	from 2,65m	from 2,50m	from 2,65m	from 2,65m
Width	from 2,35m	from 2,35m	from 2,35m	from 2,20m
max. speed	40 km/h	40 km/h	15 or 25 km/h	15 or 25 km/h
Mobility	+++	++	++	++
Running costs	+	++	+	+++
Milling	front	front or rear	front	rear
Mixing	1 or 2 augers	3 augers	1 or 2 augers	2 augers
Discharge	transverse rear	left and/or right	left or transverse	left and/or right
Feed	moist	moist/dry	moist	moist/dry
Stock	from 200 cattle	from 200 cattle	from 100 cattle	up to 200 cattle



# SF Vertikal Pro - mixing for professionals



<b>Mixing</b>	1 or 2 vertical mixing augers with hydrostatic drive
<b>Milling</b>	High performance feed rotor MT200, width 2,00m with Robalon auger
<b>Discharge</b>	Transverse with chain or PVC belt
<b>Engine</b>	218PS Volvo-Penta Turbodiesel Intercooler (Stage 4), 4 cylinders, 5l cubic capacity, easy access slide
<b>Hydraulic</b>	Bosch Rexroth hydraulics, 3-fold pump distributor gearbox
<b>Chassis</b>	Four-wheel drive and steering, max. 40km/h
<b>Tyres</b>	385/55 R 22.5 Ru front and rear



## Street legal up to 40km/h

All vehicles in our Pro-series are available with a street legal registration up to 40 km/h (TÜV). Thanks to hydraulic suspension, stable chassis and the corresponding tires you can comfortably drive the specified maximum speed. The Pro-series is therefore the perfect solution for contractors and business with multiple locations.

## no compromise

Intelligent design and high quality workmanship make the SF Vertikal Pro one of the best vertical mixers on the market. The SF Vertikal Pro can be supplied with one or two vertical augers with hydrostatic drive as required. It is a high-performance

device with sizes of up to 22m<sup>3</sup>. Nevertheless, the SF Vertikal Pro stands out due to its four-wheel steering with maneuverability and the all-wheel drive ensures full off-road capability.

Model	Volume	Auger	Width	Height	Length	Weight
SF <b>Vertikal Pro</b> 1100	11 m <sup>3</sup>	1	2.450 mm	2.650 mm	10.200 mm	10.480 kg
SF <b>Vertikal Pro</b> 1300	13 m <sup>3</sup>	1	2.450 mm	2.850 mm	10.200 mm	10.850 kg
SF <b>Vertikal Pro</b> 1500	15 m <sup>3</sup>	1	2.450 mm	3.150 mm	10.200 mm	11.480 kg
SF <b>Vertikal Pro</b> 1700	17 m <sup>3</sup>	1	2.450 mm	3.350 mm	10.200 mm	11.780 kg
SF <b>Vertikal Pro</b> 1400	14 m <sup>3</sup>	2	2.450 mm	2.650 mm	12.500 mm	13.200 kg
SF <b>Vertikal Pro</b> 1600	16 m <sup>3</sup>	2	2.450 mm	2.750 mm	12.500 mm	13,800 kg
SF <b>Vertikal Pro</b> 2000	20 m <sup>3</sup>	2	2.450 mm	2.850 mm	12.500 mm	14.000 kg
SF <b>Vertikal Pro</b> 2200	22 m <sup>3</sup>	2	2.450 mm	3.000 mm	12.500 mm	14.500 kg

Details may vary depending on equipment, technical changes reserved.



# SF Horizontal Pro - the specialist for difficult assignments



<b>Mixing</b>	3 horizontal mixing augers with hydrostatic drive
<b>Milling</b>	High performance feed rotor MT160, width 1,70m
<b>Discharge</b>	Chain conveyor right side (optional left or both sides)
<b>Engine</b>	218PS Volvo-Penta Turbodiesel Intercooler (Stage 4), 4 cylinders, 5l cubic capacity, easy access slide
<b>Hydraulic</b>	Bosch Rexroth hydraulics, 3-fold pump distributor gearbox
<b>Chassis</b>	Front-wheel drive, hydraulically suspended front axle, max. speed 40 km/h
<b>Tyres</b>	385/55 R 22.5 Ru front and rear



## milling at the rear

The milling rotor at the rear throws the material directly into the mixing container and with this dispenses a conveyor belt or a screw, as would be the case with milling. On the one hand this protects the feed structure and on the other hand it allows the tiller to pick up depths of up to 45cm. In short: The mixing container is full faster and the quality of the food is better.

Compared to a front milling cutter, the smaller overview is provided is compensated by mirrors, camera systems or the unique lifting cabin of the SF Horizontal Pro.



## Lift it up!

The most striking feature of the Hirl SF Horizontal Pro is certainly the lifting and rotating cab. It provides optimum overview when reversing and during the milling process. With the comfortable joystick control, it can also be lifted and turned while driving, allowing fast and fluent work. Nevertheless, with retracted cab

the SF Horizontal Pro is compact enough to master its work even in narrow old buildings. The SF Horizontal Pro is the champion in the Hirl fleet thanks to the rear-end tiller, engine power and a fully refillable mixing hopper and therefore unbeatable in terms of its output (t/min).

Model	Volume	Width	Height	Length	Weight
SF <b>Horizontal Pro</b> 1100	11 m <sup>3</sup>	2.450 mm	ab 2.500 mm	8.100 mm	11.400 kg
SF <b>Horizontal Pro</b> 1300	13 m <sup>3</sup>	2.450 mm	ab 2.750 mm	8.100 mm	11.800 kg
SF <b>Horizontal Pro</b> 1800	18 m <sup>3</sup>	2.450 mm	ab 2.750 mm	8.800 mm	12.500 kg

Details may vary depending on equipment, technical changes reserved.



# SF Horizontal Pro F-Serie - F like front Milling



<b>Mixing</b>	3 horizontal mixing augers with hydrostatic drive
<b>Milling</b>	High performance feed rotor MT200, width 2,00m
<b>Discharge</b>	Transverse with chain at the rear left side (optional right or both sides)
<b>Engine</b>	218PS Volvo-Penta Turbodiesel Intercooler (Stage 4), 4 cylinders, 5l cubic capacity, easy access slide
<b>Hydraulic</b>	Bosch Rexroth hydraulics, 3-fold pump distributor gearbox
<b>Chassis</b>	Four-wheel drive and steering, max. speed 40km/h
<b>Tyres</b>	385/55 R 22.5 Ru front and rear





## the scales

As standard, we use a programmable weighting system for all our trailers and self propelled mixer wagons, built on a separate weighting frame with at least 3 longitudinally mounted stainless steel loader bars for maximum precision.

On request we also install an upgrade weighting system with USB port, WLAN and interface to your tablet or management computer. Target and actual values can be compared easily and in real time. So that you have absolute control of your feed management.



## absolute precision

The F-series of the SF Horizontal Pro combines the advantages of the front milling machine (optimal overview and exact quantity control) with the advantages of horizontal mixing (even, careful mixing). This makes it one of the most accurate mixer-wagons on the market, and is also the reason for its use in leading teaching and research institutes. Thanks to its compact design and all-

wheel steering, the SF Horizontal ProF is extremely agile and suitable for small passages and old buildings despite its high performance. Because of the front-milling, the engine in the F-series is installed at the rear. Otherwise he and his brother are identical to the SF Horizontal Pro and use the same high-quality components.

Model	Volume	Width	Height	Length	Weight
SF <b>Horizontal Pro</b> 1100F	11 m <sup>3</sup>	2.371 mm	2.508 mm	10.200 mm	12.480 kg
SF <b>Horizontal Pro</b> 1300F	13 m <sup>3</sup>	2.371 mm	2.708 mm	10.200 mm	12.780 kg
SF <b>Horizontal Pro</b> 1800F	18 m <sup>3</sup>	2.441 mm	2.858 mm	10.500 mm	13.480 kg

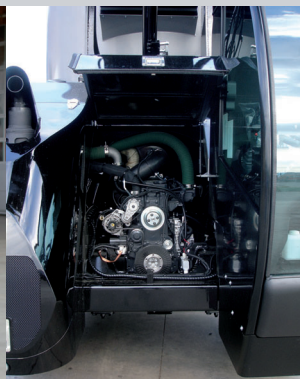
Details may vary depending on equipment, technical changes reserved.



# SF Vertikal Eco - the allrounder



<b>Mixing</b>	1 or 2 verticale mixing augers with 2 speeds
<b>Milling</b>	420bar high performance feed rotor, width 2,00m with 700mm conveyer belt
<b>Discharge</b>	Chain conveyor left side or transverse at the rear
<b>Engine</b>	Dieselenigne IVECO NEF (Stage 4), 4 or 6 cylinders
<b>Hydraulic</b>	Linde hydraulics, 2-fold pump distributor gearbox
<b>Chassis</b>	Front wheel drive, hydraulically suspended front axle, speed up to 20 km/h
<b>Tyres</b>	385/55 R 19,5 front and rear



## stainless steel

Have you ever seen an old mixer-wagon with rusted mixing tub? Years of use and aggressive food acids sooner or later cause massive damage to the mixing tub. If you want to completely and permanently exclude rust and paint chips in the feed of your animals, we offer V2A stainless steel mixing bowl as an additional option. This is the only way to guarantee optimal feed hygiene.

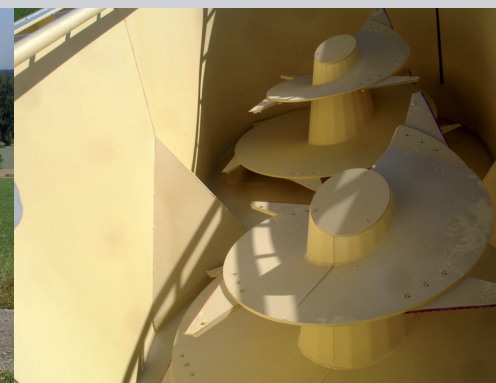
## individual solutions

The SF Vertikal ECO is the most versatile of the Hirl mixer-wagons. With sizes from 13m<sup>3</sup> to 32m<sup>3</sup> and numerous, selectable additional options, it can be adapted exactly to the needs of your business. From all-wheel drive and steering, roads approval up to

40km/h or a more powerful engine, up to heatable mirrors there are so many more optional equipment to optimize the SF Vertikal ECO exactly to your wishes.

Model	Volume	Auger	Width	Height	Length	Weight
SF <b>Vertikal Eco</b> 1300	13 m <sup>3</sup>	1	2.500 mm	3.090 mm	7.300 mm	9.400 kg
SF <b>Vertikal Eco</b> 1600	16 m <sup>3</sup>	1	2.500 mm	3.400 mm	7.100 mm	10.000 kg
SF <b>Vertikal Eco</b> 1800	18 m <sup>3</sup>	1	2.800 mm	3.150 mm	7.700 mm	11.200 kg
SF <b>Vertikal Eco</b> 2100	21 m <sup>3</sup>	1	2.800 mm	3.490 mm	7.500 mm	11.500 kg
SF <b>Vertikal Eco</b> 1400	14 m <sup>3</sup>	2	2.100 mm	2.750 mm	9.050 mm	11.400 kg
SF <b>Vertikal Eco</b> 1850	18 m <sup>3</sup>	2	2.100 mm	3.000 mm	8.850 mm	12,100 kg
SF <b>Vertikal Eco</b> 2200	22 m <sup>3</sup>	2	2.350 mm	2.950 mm	9.500 mm	13.000 kg
SF <b>Vertikal Eco</b> 2600	26 m <sup>3</sup>	2	2.500 mm	3.100 mm	9.750 mm	13.500 kg
SF <b>Vertikal Eco</b> 3000	30 m <sup>3</sup>	2	2.500 mm	3.300 mm	9.650 mm	13.950 kg
SF <b>Vertikal Eco</b> 3200	32 m <sup>3</sup>	2	2.500 mm	3.400 mm	9.400 mm	14.350 kg

Details may vary depending on equipment, technical changes reserved.



# SF Vertikal Eco A-Serie - small and special



<b>Mixing</b>	1 or 2 vertical mixing augers with 2 speeds
<b>Milling</b>	360bar high performance feed rotor, width 1,80m with 600mm conveyor belt
<b>Discharge</b>	Chain conveyor left side or transverse at the rear
<b>Engine</b>	Dieselenigne IVECO NEF (Stage 4), 4 cylinders
<b>Hydraulik</b>	Linde hydraulic, 2-fold pump distributor gearbox
<b>Fahrwerk</b>	Rear wheel drive, leaf suspension front axle, speed up to 12 km/h
<b>Bereifung</b>	295/75 R 19,5 front and 205/75 R 17,5 twin tyres rear



## feed discharge

With all our mixer-wagons, the feed output can be adapted to your needs. Whether left, right, two-sided, or extended: depending on the feed table and the routes we find the optimal solution for you and your animals.



## less power - more profit

The A-series of the SF Vertical ECO is somewhat lighter than its big brother, but not less reliable, with a slightly different design and reduced power. The reduced operating and maintenance costs

make the SF Vertikal ECOA the perfect mixer-wagon for small and medium-sized companies.

Model	Volume	Auger	Width	Height	Length	Weight
SF <b>Vertikal Eco</b> 1300A	13 m <sup>3</sup>	1	2.500 mm	2.800 mm	7.500 mm	8.400 kg
SF <b>Vertikal Eco</b> 1500A	15 m <sup>3</sup>	1	2.500 mm	3.050 mm	7.500 mm	8.650 kg
SF <b>Vertikal Eco</b> 1400A	14 m <sup>3</sup>	2	2.100 mm	2.650 mm	9.070 mm	10.400 kg
SF <b>Vertikal Eco</b> 1800A	18 m <sup>3</sup>	2	2.100 mm	2.850 mm	9.070 mm	10.850 kg

Details may vary depending on equipment, technical changes reserved.



# SF Horizontal Eco - simple, strong and efficient



<b>Mixing</b>	2 horizontal mixing augers with mechanic drive
<b>Milling</b>	High performance feed rotor MT160 , width 1,70m
<b>Discharge</b>	Chain conveyor left side (optional both sides)
<b>Engine</b>	170PS Dieselenigne IVECO NEF (Stage 4), 4 cylinders
<b>Hydraulik</b>	Linde hydraulics, 2-fold pump distributor gearbox
<b>Fahrwerk</b>	Front wheel drive, leaf suspension front axle, speed up to 12 km/h
<b>Bereifung</b>	275/75 R 19,5 front and rear

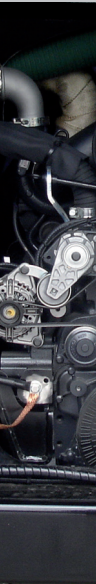


## our service

We won't let you down! For us as practitioners with an attached farm, this is a matter of course. Our flexible, friendly and well-trained team is available 365 days a year.

We keep all spare parts ready in our extensive warehouse so that we can be at your side at short notice in an emergency.

And play it safe with the new service contracts from Hirl Technik. Extended warranty, wearing parts package, regular maintenance and inspection by professionals let you sleep peacefully.



## no frills

The SF Horizontal Eco is probably the ‚cheapest‘ of the horizontal self-propelled vehicles from Hirl, but that doesn't mean that we have saved on quality! Rather, its design is based on the motto: less is more. So the SF Horizontal Eco renounces on features and

electronics that are not urgently needed (fewer parts - less wear). If you can do without a bit of comfort, the SF Horizontal Eco is an inexpensive but reliable partner.

Model	Volume	Width	Height	Length	Weight
SF <b>Horizontal Eco</b> 1000	10 m <sup>3</sup>	2.250 mm	2.750 mm	8.100 mm	6.800 kg
SF <b>Horizontal Eco</b> 1300	13 m <sup>3</sup>	2.450 mm	2.950 mm	8.100 mm	6.950 kg
SF <b>Horizontal Eco</b> 1800	18 m <sup>3</sup>	2.450 mm	3.150 mm	8.900 mm	7.450 kg

Details may vary depending on equipment, technical changes reserved.



# T Horizontal Pro - Efficiency at low costs



## pro trailer

With the right towing vehicle, the T Horizontal Pro can easily replace any large self-propelled wagons. Thanks to its large usable volume (full filling possible) and the powerful performance of the

rear tiller, the T Horizontal Pro can easily supply larger crops with a high-quality feed mixture.

Model	Volume	Width	Height	Length	Weight
T <b>Horizontal Pro</b> 1000	10 m <sup>3</sup>	2.200 mm	2.500 mm	6.200 mm	6.350 kg
T <b>Horizontal Pro</b> 1200	12 m <sup>3</sup>	2.350 mm	2.650 mm	6.980 mm	7.350 kg
T <b>Horizontal Pro</b> 1500	15 m <sup>3</sup>	2.350 mm	2.750 mm	6.980 mm	7.650 kg
T <b>Horizontal Pro</b> 1800	18 m <sup>3</sup>	2.450 mm	2.850 mm	7.670 mm	8.720 kg

Details may vary depending on equipment, technical changes reserved.





# T Horizontal *Eco* - robust, compact and uncompromising



## the little brother

The T Horizontal Eco is a bit lighter and the electronic remote control has been replaced by an uncomplicated Bowden cable control. The rear axle makes it extremely manoeuvrable and the

smaller models in particular are the ideal solution for small and medium-sized businesses with old buildings.

Model	Volume	Width	Height	Length	Weight
T Horizontal <i>Eco</i> 600	6 m <sup>3</sup>	2.150 mm	2.295 mm	5.320 mm	4.600 kg
T Horizontal <i>Eco</i> 800	8 m <sup>3</sup>	2.150 mm	2.395 mm	5.840 mm	5.000 kg
T Horizontal <i>Eco</i> 1000	10 m <sup>3</sup>	2.240 mm	2.495 mm	6.310 mm	5.500 kg
T Horizontal <i>Eco</i> 1300	13 m <sup>3</sup>	2.330 mm	2.610 mm	6.740 mm	6.400 kg
T Horizontal <i>Eco</i> 1600	16 m <sup>3</sup>	2.480 mm	2.710 mm	7.210 mm	7.100 kg
T Horizontal <i>Eco</i> 1800	18 m <sup>3</sup>	2.480 mm	2.810 mm	7.390 mm	7.800 kg

Details may vary depending on equipment, technical changes reserved.



# T Vertikal - a reliable partner in everyday life



## proven technology

Depending on the model, the T Vertikal is produced with 1 or 2 vertical mixing augers. With the height-adjustable drawbar and

sizes from 10m<sup>3</sup> to 32m<sup>3</sup>, there is the right model for everyone looking for a vertical mixing trailer.

Model	Volume	Auger	Width	Height	Length	Weight
T Vertikal 1000	10 m <sup>3</sup>	1	2.350 mm	2.680 mm	5.600 mm	4.700 kg
T Vertikal 1300	13 m <sup>3</sup>	1	2.500 mm	2.830 mm	5.850 mm	5.400 kg
T Vertikal 1600	16 m <sup>3</sup>	1	2.500 mm	3.050 mm	5.850 mm	5.700 kg
T Vertikal 1800	18 m <sup>3</sup>	1	2.800 mm	3.120 mm	6.300 mm	6.000 kg
T Vertikal 2100	21 m <sup>3</sup>	1	2.800 mm	3.300 mm	6.200 mm	6.150 kg
T Vertikal 1400	14 m <sup>3</sup>	2	2.100 mm	2.530 mm	7.300 mm	6.200 kg
T Vertikal 1850	18 m <sup>3</sup>	2	2.100 mm	2.950 mm	7.450 mm	6.700 kg
T Vertikal 2200	22 m <sup>3</sup>	2	2.350 mm	2.900 mm	8.030 mm	7.500 kg
T Vertikal 2600	26 m <sup>3</sup>	2	2.500 mm	3.070 mm	8.380 mm	8.700 kg
T Vertikal 3000	30 m <sup>3</sup>	2	2.500 mm	3.270 mm	8.430 mm	9.000 kg
T Vertikal 3200	32 m <sup>3</sup>	2	2.500 mm	3.370 mm	8.350 mm	9.200 kg

Details may vary depending on equipment, technical changes reserved.





T1000 HE

⚠️  
⚠️  
Achtung!  
3m  
Sicherheitsabstand  
einhalten

STOP

⚠️





[www.hirl-technik.de](http://www.hirl-technik.de)



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