

LIBA

LINGENER BAUMASCHINEN

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EARTHWORK IN PERFECTION

since 1964



Mill

Load

Fill

EARTHWORK IN PERFECTION



Since 1964 the label
GRABENMEISTER
stands for technically fastidious trenchers
which are sold world-wide.

Our experience of many years
is your guarantor
for know-how, service
and reliable machines.

The early beginning of our trencher
was founded in a small production hall.

In consequence
to the increased demand
and the expansion of the product range
we had to enlarge and modernize
our factory.

In 1994 we finished our new domicile,
in which we may welcome you
until today.

About us.



Grabenmeister-Attachments:

Grabenmeister-Selfpropelled:



SELFPROPELLED TRENCHERS

Selfpropelled "Grabenmeister" GM 1 - 6 used in different conditions!

Technical details (Depending on type):

Our trenchers GM 4 4x4 – GM 6 ASR can you rent with operator

Undercarriage:	Four wheel drive or tracks drive with slab of rubber on a steel chain
Trench depth:	600, 850, 1100, 1250, 1500, 1700 mm (special depth 3000 mm possible)
Trench width:	70 - 600 mm
Chain types:	Normal tools, Alligator or mixed chains
Pitch of chain:	44,45 mm, 75 mm and 100 mm
Optional equipment:	Lasersystem manuel or automatic, slot equipment, discharge conveyors, sand hopper, pipe guiding system, backfilling worm, reel pipe carrier, backfilling blade, cabin, sliding boom, twin tires etc.
Weight:	of 1.960 kg - 16.000 kg
Dimensions:	of 4.100 - 9.100mm long / 1.300 - 2.500mm with / 2.300 - 3.100mm high

Selfpropelled trencher "Grabenmeister": GM 1 4x4



GM 4 4x4



GM 4 Raupe



GM 6 ASR



TRENCHER ATTACHMENT

Trencher Attachment "Grabenmeister" for Tractors and Excavators or two way excavators!

Technical details (Depending on type):

Drive:	mechanical by power shift or hydraulic by radial piston motor
Trench depth:	600, 850, 1250, 1600 mm (special depth possible)
Trench width:	70 - 600 mm
Chains types:	normal tools, alligator or mixed chains
Pitch of chain:	44,45 mm, 75 mm and 100 mm
Optional equipment:	Laser system manual or automatic, slot equipment, discharge conveyors, sand hopper, pipe equipment system, backfilling worm, reel pipe carrier, backfilling blade, sliding boom etc.
Weight:	600 kg - 2.900 kg
Dimensions:	3.100-4.400 mm long / 1.500-1.750 mm width / 1.100 - 2.000 mm high

Trencher Attachment "Grabenmeister" GM 1-A



GM 1-AS



GM 140 AF:



GMA 160 AF or AS:



Hydraulic trencher attachment for excavator or two way excavator: GMA 140 AFH-500 – GM 140 AFH-600



GMA 140 H



Special Trencher

Special trencher "Grabenmeister" in different Power classes!

Technical details (Depending on type):

Engine:	All type for example Deutz or Catterpillar
Trench depth:	up to 4500 mm
Trench width:	150 - 450 mm
Type of chain:	different
Pitch of chain:	125 mm
Optional equipment:	Laser system manual or automatic, pipe guidingsystem, reel pipe, sand hopper
Wight:	up to 20.000 kg

Special machine "Grabenmeister":

GM 300 H – with 3000 mm cutterboom



GM 450 H – with 4500 mm cutter boom



GM 1800 P – Selfproppeled Drainplough

Technical details (Depending on type):

Engine:	Deutz
Plough depth:	1800 mm
Optional equipment:	Lasersystem, Cable reel socket, GPS control
Wight:	approx. 30.000 kg



GMV 130 Plough –Vibratingplough

Technical details (Depending on type):

Plough depth:	max. 1300 mm
Pipe diameter:	max. 80 mm Ø
Wight:	approx. 2.400 kg





Small and strongly. The same tri level trencher with low dead weight for small soil contamination. With the Tilt mechanism can be adjust lateral downward gradient to 15°. The control platform is rotatable. The excavation can be ejected left or right, or be shipped directly with a reciprocally insertable conveyor. With an additional filling

judges milling and filling with gravel are possible in only one processing step. For direct cable and tubing introduction the GM1 all wheel can be equipped with further accessories. Beyond that the GM 1 can be equipped also with dual tire.

Individual equipment on request.

GM 1 (4WD)

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Standard:

- ▶ Bank adjustment over hydraulic cylinders
- ▶ Rotatable operator platform with comfort seat
- ▶ Hydraulic steering
- ▶ Specially broad tires with fine lug tread
- ▶ Conveyor for the lateral ground ejection

Accessories:

- ▶ Cabine with heating and air conditioning system
- ▶ Filling snail aggregate with hydraulic drive
- ▶ 70 mm drainage slot equipment for sports field construction
- ▶ Filling judges for immediate filling after milling
- ▶ Shipping conveyor
- ▶ Laser price increase
- ▶ Cutter, mixture and chisel chains
- ▶ Hasp for drainage pipes
- ▶ Dual tires



Technical data:

Length: 4.400 mm
Height: 1.600 mm
Width: 1.310 mm

Weight:
approx. 1.960 kg

Widths:
70 - 300 mm

Depths:
600 - 1.400 mm

Drive:
3-Zyl. Diesengine
23 kW / 31,5 HP
4 wheel drive





Achievement and flexibility. High performance 4-Zylinder trencher for many application type. The GM 4 all wheel has electrically hydraulic valves. So that the driver stand can be displaced on the left side of the machine (directly looks into the trench). The machine can be equipped additionally with a filling judges in order to settle a milling and a

filling with gravel in a rocessing step. Lateral downward gradient can be balanced to 12° inclination over the hydraulic Tilt mechanism. The excavation can be ejected reciprocally, to the right or left. Over an additional conveyor also direct shipping is possible. Individual equipments on request.

GM 4 (4WD)

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Standard:

- ▶ Bank adjustment over hydraulic cylinders
- ▶ Shift-cash driver stand forward left
- ▶ Hydraulic steering element
- ▶ Specially broad tires with fine profile/dual tires
- ▶ Conveyor for the lateral ground ejection
- ▶ Hydrostatic all-wheel drive

Accessories:

- ▶ Cabin with heating and air conditioning system
- ▶ Vibration cable plow
- ▶ Filling snail aggregate with hydraulic propelled
- ▶ 70 mm of drainage slot equipment for sports field construction
- ▶ Filling judges for immediate filling after milling
- ▶ Conveyor
- ▶ Laser system for depths adjustment
- ▶ Cutter, mixture and chisel chains
- ▶ Hasp for drainage pipes
- ▶ Dual tires



Technical data:
(depends of the boom)

Length: 5.700 mm
Height: 2.300 mm
Width: 1.800 mm

Weight:
approx. 3.290 kg

Widths:
70 - 400 mm
Depths:
600 - 1.500 mm
(3.000 mm)

Drive:
4-Zyl. Dieselenigne
63 kW / 85,7 HP
4 wheel drive





The GM 4 is also available with crawler-type vehicle drive. Ideally for working on hard-to-travel and stony reason, whereby the fall of the chassis adjusts also surface irregularities. The GM 4 crawler-type vehicle is likewise propelled by a 4-Zylinder Diesel. It is optionally available with guiding roles for the direct cable and tubing introduction. The excavation can be ejected reciprocally to the

right or left and be shipped directly over an additional conveyor. The Tilt mechanism adjusts lateral downward gradient to 12° inclination hydraulically. The driver stand is forward on the left of shiftable, with which a direct view is possible on the milling chain and the grave.

Individual equipments on request.

GM 4 Crawler

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Technical data:

(depends of the boom)

Length: 5.700 mm

Height: 2.300 mm

Width: 1.800 mm

Weight:
 approx. 4.500 kg

Widths:

70 - 400 mm

Depths:

600 - 1.500 mm

Optionally

up to 3.000mm

Drive:

4-Zyl. Dieselenigne

63 kW / 85,7 HP



Standard

- ▶ Bank adjustment over hydraulic cylinders
- ▶ Shift-cash driver stand forward left
- ▶ Onepoti steering element
- ▶ Conveyor for the lateral ground ejection
- ▶ Fullhydrostatic drives

Accessories:

- ▶ Cabin with heating and air conditioning system
- ▶ Vibration cable plow
- ▶ Filling snail aggregate with hydraulic drive
- ▶ 70 mm of drainage slot equipment for sports field construction
- ▶ Filling judges for immediate filling after milling
- ▶ Conveyor
- ▶ Laser system for depths adjustment
- ▶ Cutter, mixture and chisel chains
- ▶ Hasp for drainage pipes



SELFPROPELLED TRENCHERS



Work in the best angle for less wear.

The GM 6 ASR with turbo-Diesel and on Tracks is a strong and versatile trencher with hydraulic cutter boom. The cutter boom can be shifted laterally up to 60 cm over the machine outside edge. The excavation is ejected in trench direction left over a hydraulic conveyor. In order to ship the excavation in a processing

step on a truck, an additional conveyor is available. The GM 6 ASR has guiding roles, which make a direct cable and tubing introduction possible. The cabin is hydraulically tiltable. The Tilt mechanism adjusts lateral downward gradient to 10° hydraulically.

GM 6 ASR

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Standard:

- ▶ hydraulic slope adjustment of the cutter boom
- ▶ hydraulic of sideshifttable cutter boom (to 60 cm over the machine outside tracks)
- ▶ hydraulic tiltable cabin
- ▶ hydrostatic drive for the Tracks (optional with rubber plates)

Accessories:

- ▶ Cabin with heating and air conditioning system
- ▶ Filling snail or levelling scoop
- ▶ Charging conveyor for front loading on truck
- ▶ Support for draining pipes and cabledrums
- ▶ Laser system for depths adjustment
- ▶ Cutter, chisel and mixed chains
- ▶ Hasp for drainage pipes



Technical data:

Length: 9.100 mm
Height: 3.100 mm
Width: 2.500 mm

Weight:
approx. 16.000 kg

Widths:
150 - 600 mm
Depths:
300 - 1.500 mm

Drive:
Parkins
6-Zyl. Turbo-Diesel
145 KW / 195 PS
hydrostatic Tracks





NEW

The grave master drain GM 1800 P is a product of our long experience in building Drainmaschine, Drainpflüge grave and milling and good cooperation with our customers for these machines.

The GM 1800 P is a device that will meet in the implementation of the drainage works and trenching for cables and pipes for gas and water pipes highest. The GM 1800 P has an engine power of 400 hp and runs on caterpillar tracks with fully hydrostatic drive. The drive is controlled via joystick electro-hydraulic cylinders and all major functions are also installed in it, this is the operator easy to use.

Standard:

- ▶ Chassis standard 2,700 mm (Optional = hydr. Extendable up to 4,000 mm)
- ▶ hydraulically ploughshare
- ▶ hydraulically swiveling and extendable cab
- ▶ hydrostatic track drive with joystick control
- ▶ Cabin with heating, air conditioning and sunroof
- ▶ (Optional = air suspension,
- ▶ Reel for drain pipes
- ▶ self-leveling cabin

Accessories:

- ▶ Cable reel recording
- ▶ Laser system for depth control
- ▶ GPS control with recording

Optionally, the drives of the GM 1800 P 2,700 mm track width are hydraulically extended up to a track width of 4,000 mm. Bumps are the special suspension of the plow sword, which is approximately in the middle of the drive, as far as possible avoided. The deluxe cab features besides heating and air conditioning also has a sunroof and impresses through its size and extra large windows, as an option, the cabin can even be equipped with an air suspension.

GM 1800 P

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Technical data:

Length: 10.300 mm
Height: 3.446 mm
Width: 2.700 mm

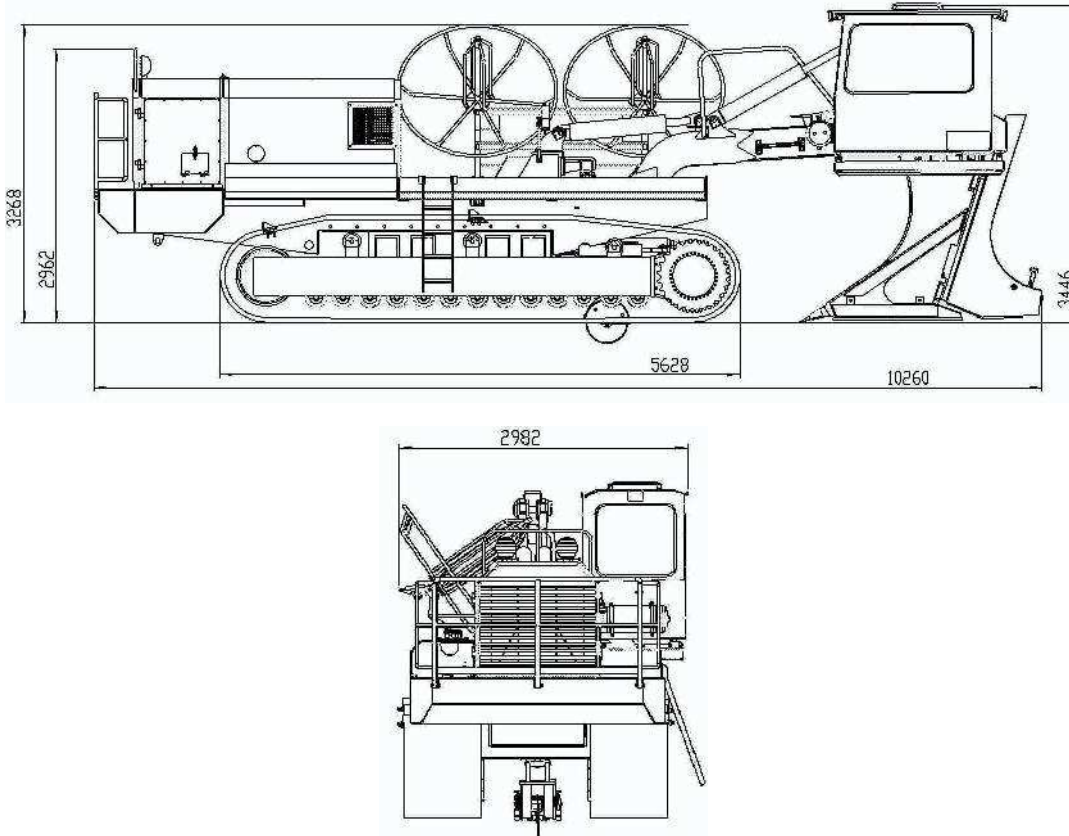
Weight:
approx. 30.000 kg

Widths:
to 1.800 mm

Drive:
6 Cyl. Deutz Turbodiesel
294,2 KW
hydr. Tracks



SELFPROPELLED DRAINPLOUGH



GM 1800 P

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NEW

Grabenmeister Plough GM 1800 P

Technical Data:

Dimensions in mm

Length: 10260

Height with reel: 3268

Height without reel: 2962

Length undercarriage: 5628

Height cabine u. share: 3446

Width: 2982

Weight: 30.000 kg

Engine:

Deutz TCD 2015 with 294,2 kw / 400 PS

Capacity of fuel tank 1.000 l

Optional:

other engines on request

Running gear (optional)

Speed forwards/backward

in operation 0-3800 m/h infinitely variable

in overdrive 0-8000 m/h infinitely variable

Electro system

Circuit 24 Volt

Battery 2x12 V/ 170 Ah

Hydraulic system

Hydr. speed

2 hydr. Pumps

Max. discharge 378 l/Min.

Max. pressure 400 bar

Control hydr. system

Oil tank 450 Liter

Capacity of tank 580 Liter

Pressure of 200 bar.

Maximum flow for panning and tilting by a

pump 64 l / min at a max. Pressure of 200

bar. Load moment for the sword through a

check valve at 100 bar.





Technical Details – Selfpropelled



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	GM 1 4x4	GM 2 4x4	GM 3 4x4	GM 4 4x4	GM 4 Raupe	GM 6 ASR	GM 1800 P
Width:	70 – 300 mm	70 – 300 mm	70 – 300 mm	70 – 400 mm	70 – 400 mm	120 – 600 mm	Plough Depths: to 1.800 mm
Depths:	300 – 1.200 mm	300 – 1.200 mm	300 – 1.200 mm	300 – 1.500 mm	300 – 1.500 mm	300 – 1.700 mm	
Engine:	Lombardini Diesel 3 Cyl. LDW1503 water-cooled 23 KW 31,5 HP	Mitsubishi Diesel 4 Cyl. 1,7 L, 28,3 KW 40 HP	Mitsubishi Diesel 4 Cyl. 2,5 L, 34,6 KW 47,1 HP	Kubota V-3600-TE3B, water-cooled 63 KW 85,7 HP	Kubota V-3600-TE3B, water-cooled 63 KW 85,7 HP	6-Cylinder Turbodiesel water-cooled 168 KW 228 HP	Deutz TCD 2015 6-Gylinder Turbodiesel water-cooled 294,2 KW 400 HP
Travel drive:	4 Radial piston engine Infinitely adjustable			4x Radial-Piston-Engine 750+375cm ³ , infinitely adjustable (2x w. frain) possibility differential	2x Radial-Piston-Engine Infinitely adjustable with frain	2x Radial-Piston-Engine infinitely adjustable with frain	2x Tandemregulations -pump Linde á 210cm ³
Working-/ Transportspeed:	0 – 12 km/h	0 – 30 km/h	0 – 30 km/h	0 – 12 km/h	0 – 6 km/h	0 – 8 km/h	Variabel 0 – 5750 m/h
Cutting chain drive:	mec., putting into gear hydraulically	by power shaft	mec. by power shaft	mec/hydr by power shaft	mec/hydr by power shaft	Hydr. forwards and backwards	
Steering:	hydr. with steering wheel	hyd. with steering wheel 13L/120Bar	hydr. with steering wheel 13L/120Bar	hydr. with steering poti	hydr. with steering lever	hydr. with steering lever	hydr. with steering wheel
Electrical-System:	Charg.alternator 14V/33A Electr. Starter 1,5KW/12V	Charging alternator 12V Electr.Starter 1,5KW/12V	Charging alternator 12V Electr. Starter 1,5KW/12V	Charging alternator 12V Electr. Starter 1,5KW/12V	Charging alternator 12V Electr. Starter 1,5KW/12V	Charging alternator 12V Electr. Starter 1,5KW/12V	Charging alternator 12V Electr. Starter 1,5KW/12V
Hydraulic-System:	- Tandemregulationpump debit 14cm ³ - Cutter boom about Hydr-Cylinder Piston-wheel-pump 19 and 4 cm ³	- Piston wheel pump 30 L/170Bar two controlvalves	- Piston wheel pump 30 L/170Bar	- Tandemregulationpump Rexroth 18/18 - Displace (Control of all functions electrically)	- Tandemregulationpump Rexroth 18/18 - Displace (Control of all functions electrically)	- Tandemregulationpump Sauer - Displace (electrical switch by valve proportional)	Displace (electrical switch by valve proportional)
Tyres equipment - Crawlergear:	26x12.00-12 Terra	Variable	Variable	31x15.5-12 Terra/Farmer	Steelchain with 300mm gumm. paving tiles	Steelchain with 500mm 3 cage paving tiles	B60 oil lubricated steel chain with 800mm 3 +1 cage paving ziles
Standard equipment:	Standardconveyor hyd. Verticalregul. hydr.10° Fourwheeldrive (infinitely)	Standardconveyor hyd. Bottom Cleaner Edge Cleaner cpl. Fourwheeldrive (infinitely)	Standardconveyor hyd. Bottom Cleaner Edge Cleaner cpl. Fourwheeldrive (infinitely)	Standardconveyor hyd. Bottom Cleaner Edge Cleaner cpl. Fourwheeldrive (infinitely) Verticalregul. hydr.15°	Standardconveyor hyd. Bottom Cleaner Edge Cleaner cpl. Verticalregul. hydr.15°	Standardconveyor hyd. Bottom Cleaner Edge Cleaner cpl. Verticalregul. hydr.15°	Standard equipment: - chassis standard 2700 mm (Optional=hydr. extendable up to 4000 mm) - hydr. side relocatable ploughshare - hydr. swiveling and extendable cabin - hydrostatic track drive with Joy-Stick control - Cabin with heating, air conditioning and sunroof (Optional=air suspension) - Hasp (drain. pipes) - self-leveling cabin
Optional equipment:	Cutter boom depth: Cutter chain widths: - 600, 850,1100,1200 mm - 70, 120, 150, 200, 250 and 300 mm (44.45 o. 75mm pitch) - Alligat.chaine carbitebits - Edge cleaner a.support - Tyres f. sward lawn - dual Tyres with flanges - Conveyor for charging 3000 mm hydr. - Lasersystem manual or automatic - Pipe-Laying-Systems for putting directly pipes - Filling judge etc. - Drain-equipment 70mm - Filling judge	- 600, 850,1100,1200 mm - 70, 120, 150, 200, 250 and 300 mm (44.45 o. 75mm pitch) - Alligat.chaine carbitebits - Mixed Chain (Bits and Tools) - Tyres for Lawn, Golf- or Communal - Cabin (heating/aircond.) - Boom shiftable - Lasersystem manual or automatic - Conveyor for charging - Hasp for drain. pipes - Backfilling blade - Drain-equipment 70mm - Filling judge - Backfilling blade	- 600, 850,1100,1200 mm - 70, 120, 150, 200, 250 and 300 mm (44.45 o. 75mm pitch) - Allig.chaine carbitebits - Mixed Chain (Bits and Tools) - Tyres for Lawn, Golf- or Communal - Cabin (heating/aircond.) - Boom shiftable - Lasersystem manual or automatic - Conveyor charging - Hasp for drain. pipes - Backfilling blade - Drain-equipment 70mm - Filling judge - Backfilling blade	- 600, 850,1250,1500 mm 3000 mm (optional) - 70, 150, 200, 250, 300 350 and 400 mm (75mm pitch) - Allig.chaine carbitebits - Mixed Chain (Bits and Tools) - Tyres Farmer - Edge cleaner a.support - dual Tyres with flanges - Conveyor for charging 3000+4000mm hydr. - Lasersystem manual or automatic - Drain-equipment 70mm - Filling judge - Hasp for drain. pipes - Backfilling blade	- 600, 850,1250,1500 mm 3000 mm (optional) - 70, 150, 200, 250, 300 350 and 400 mm (75mm pitch) - Allig.chain carbitebits - Mixed Chain (Bits and Tools) - Edge cleaner a.support - Backfilling worm - Conveyor for charging 3000+4000mm hydr. - Lasersystem manual or automatic - Filling judge - Hasp for drain. pipes - Backfilling blade - Cable reel carrier	- 1500 mm - 120, 150, 200, 250, 300 350, 400,450, 500 and 600 mm(75mm Tlg.) - Allig.chain carbitebits - Mixed Chain (Bits and Tools) - Edge cleaner a.support - Backfilling worm - Conveyor for charging - Lasersystem manual or automatic - Filling judge - Hasp for drain. pipes - Backfilling blade - Cable reel carrier	Optional equipment: Plow depth: - 1800 mm - Lasersystem for depth control - Cable reel seat - GPS control with recording
Dimens.Trencher aprox:	Weight Length Width Hight (Weight/ dimensions are Depending on the equipment)	Weight Length Width Hight (Weight/ dimensions are Depending on the equipment)	Weight Length Width Hight (Weight/ dimensions are Depending on the equipment)	Weight Length Width Hight (Weight/ dimensions are Depending on the equipment)	Weight Length Width Hight (Weight/ dimensions are Depending on the equipment)	Weight Length Width Hight (Weight/ dimensions are Depending on the equipment)	Weight Length Width Hight (Weight/ dimensions are Depending on the equipment)
	1.960 kg 4.100 mm 1.600 mm 2.400 mm	2.000 kg 6.500 mm 1.300 mm 2.310 mm	2.000 kg 6.500 mm 1.300 mm 2.310 mm	3.290 kg 5.700 mm 1.800 mm 2.300 mm	4.500 kg 9.100 mm 1.800 mm 2.300 mm	16.000 kg 9.100 mm 2.500 mm 3.100 mm	30.000 kg 10.260 mm 2.982 mm 3.446 mm



Economically and strongly. The GM 1-A is a cultivation trencher for the assembly at tractors with three point admission at the tail. It is ideal for the cable, tubing and drainage pipe installation. Particularly favourable is the small dead weight of the trencher, so that she can be operated also at very small tractors. For an optimum at achievement the GM 1-A can be equipped with various grave

trees (600-1200 mm) and trench cutters (70-300 mm). Over the change of the chain can be provided slot drainage with 70 mm broad. The trencher is propelled over a power-takeoff. The excavation is right put down over a hydraulic conveyor.

Individual equipment on request.

GM 1-A

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Technical data:

Weight:
approx. 600 kg

Widths:
70 - 300 mm

Depths:
600 - 1.200 mm

Trench chain drive:
mechanically over
power-takeoff

PTO speed:
540 rpm



A condition: Tractor with 30-65 HP and supercrawler gears or hydraulic act.

Accessories:

- ▶ Shipping conveyor for direct shipping
- ▶ 45 or 75 mm of chain with trench widths of 70-300 mm and high breaking load
- ▶ Sole circular scrapers with adjustment of the trenching depths
- ▶ Laser system (manual or automatic)
- ▶ Tubing admission and moving pit.
- ▶ Carbon chisel chains for highest requirement



TRENCHER ATTACHMENT



Economically and strongly. The GM 1-AS is a cultivation trencher for the assembly at tractors with three point admission at the tail. It is ideal for the cable, tubing and drainage pipe installation. Particularly favorable is the small dead weight of the trencher, so that the trencher can be operated also at very small tractors. For an optimum at achievement the GM 1-AS can be equipped with various

cutter booms (600-1200 mm) and trench widths (70-300 mm). Over the change of the chain can be provided small drainage with 70 mm. The GM 1-AS is propelled over a power-takeoff. The excavation of the material is on the right and left side with two snails.

Individual equipment on request.

GM 1-AS

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Technical data:

Weight:
approx. 600 kg

Widths:
70 - 300 mm

Depths:
600 - 1.200 mm

Trench chain drive:
mechanically over
power-takeoff

PTO speed:
1.000 rpm

Accessories:

- ▶ Sole circular scrapers with adjustment of the trench depths on request hydraulically
- ▶ Laser system (manual or automatic)
- ▶ Pipe drums and lying system
- ▶ Cutter, chisel and mixtured chains
- ▶ Hasp for drainage pipes



TRENCHER ATTACHMENT



Strongly and flexibly. The GM 140 AF is a cultivation trencher for the assembly at tractors with three point admission at the tail. It is ideal for the cable, tubing and drainage pipe installation. In order to be able optionally on obstacles and embankments work, the trench bar can be shifted mechanically or hydraulically up to 600 mm laterally (optionally). The trench cutter can be

equipped with different grave trees from 600 to 1,500 mm of depth and trench cutter from 70 to 400 mm. The drive is made by the power-takeoff. The GM 140 AF has in series a hydraulic conveyor, with which the excavation leaves itself on the right of and/or on the left of placings.

Individual equipment on request.

GM 140 AF

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Technical data:

Weight:
approx. 1.800 kg

Widths:
70 - 400 mm

Depths:
600 - 1.500 mm

Trench chain drive:
mechanically
over power-takeoff

PTO speed:
1.000 rpm

A condition: Tractor with 80-140 HP and supercrawler gears or hydraulic act.

Accessories:

- ▶ Shipping conveyor for direct shipping
- ▶ 75 mm of trench chain with trench widths of 70 - 400 mm and high breaking load
- ▶ Sole circular scrapers with adjustment of the trench depths
- ▶ Laser system (manual or automatic)
- ▶ Tubing admission and moving pit
- ▶ Carbon chisel chains for highest requirement



TRENCHER ATTACHMENT



Versatile conceived. The GM 160 S is a cultivation trencher for the assembly at tractors with three point admission at the tail. It is ideal for the cable, tubing and drainage pipe installation. For that optionally the trench bar can work on obstacles be shifted mechanically or hydraulically up to 600 mm laterally (optional). The trench cutter can be equipped with different grave trees from 600

to 1,600 mm of depth and trench cutter from 150 to 400 mm broad. The drive is made alternatively by the power-takeoff or a hydraulic engine (optionally). As GM the trench cutter is equipped 160 AF with a hydraulic conveyor, with which the excavation is laterally put down.

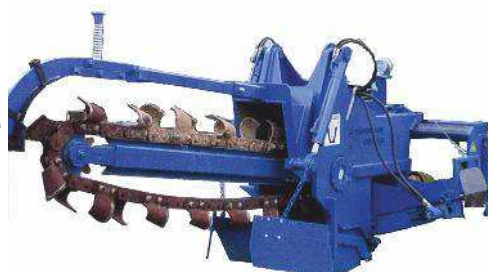
Individual equipment on request.



A condition: Tractor with 80-200 HP and supercreeper gears or hydraulic act.

Accessories:

- ▶ Shipping conveyor for direct shipping
- ▶ 75 mm of trench chain with trench widths of 150 - 400 mm and high breaking load
- ▶ Sole circular scrapers with adjustment of the trench depths
- ▶ Shiftable Cutterboom
- ▶ Laser system (manual or automatic)
- ▶ Tubing admission and moving pit
- ▶ Carbon chisel chains for highest requirement



GM 160 S/AF

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S: with snail
AF: with conveyor

Technical data

Weight:
approx. 2.300 kg

Widths:
150 - 400 mm

Depths:
600 - 1.600 mm

Trench chain drive:
mechanically
over power-takeoff

PTO speed:
1000 rpm





More flexibility at the excavator. The cultivation trencher GM 140 H (2 Cutter-Boom) is a high performance, economic trench, which are conceived particularly for the employment at hydraulic excavators. Installed at an excavator arm they offer the advantage to achieve and over obstacles away to work be able a large action field.

Working during driving is laterally, parallel facing forward, likewise possible. So those are often cultivation trench an ideal alternative to the self-propelled trenchers. Are optionally available among other things different trench bars, tubing moving pits and cable role owner in various remarks.

GM 140 H

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 info@Lingener-Baumaschinen.de
 www.Lingener-Baumaschinen.de



Practically and robust.

These model is available with differently long trench bars. The GMA series trench the grave as narrow as possible, which saves costs during the re-establishment of the grave. Steplessly adjustable depth control can be made manually or by a laser price increase. The back filling is facilitated, by or two additionally mountable snails the trench out ground to or two sides placing.



Technical data:

Weight:
 approx. 2.800 kg
 depending equipment

One-bar system
 Width:
 125 - 400 mm

Two-bar system
 Width:
 500 + 600 mm

Depths:
 600 - 1.500 mm

Millining chain drive:
 hydraulically





NEW

Our new „Grabenmeister GM 140 AFH-600“ is equipped with a hydraulic turntable, enabling the offset for trenching beside the excavator. The use of a offset Trencher is necessary if the Trench goes directly to the trench / or behind obstructions such as guard rails, falling or rising slopes, hedges, walls similar.

A major advantage of the new GM 140 AFH-600 is, that the Trencher is equipped with a conveyor belt that can be placed on both sides (left or right as needed). By the conveyor the discharge of the excavated soil will be excavated from the edge of the Trench and keep free the sides of this. So the excavated soil still on the right side of the Trench to be easily backfilling.

GM 140 AFH-600

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Technical data:

Weight:
 approx. 2.900 kg
 depending on equipment

One-bar system
 Widths:
 120 - 400 mm

Two-bar system
 Widths:
 500 + 600 mm

Depths:
 600 - 1.500 mm

Trench chain drive:
 hydraulically



The structure of the GM 140 AFH-600 was designed to be extremely flexible and by establishing fast-changing systems in the shortest time mounted or dismantled to the excavator. So that the using of the GM 140 AFH-600 is very interesting also for short trenching dimensions.





NEW

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A major advantage of the new GM 140 AFH-600 is, that the Trencher is equipped with a conveyor belt that can be placed on both sides (left or right as needed). By the conveyor the discharge of the excavated soil will be excavated from the edge of the Trench and keep free the sides of this. So the excavated soil still on the right side of the Trench to be easily backfilling.

GM 140 AFH-600

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Technical data:

Weight:
 approx. 2.900 kg
 depending on equipment

One-bar system
 Widths:
 120 - 400 mm

Two-bar system
 Widths:
 500 + 600 mm

Depths:
 600 - 1.500 mm

Trench chain drive:
 hydraulically



The structure of the GM 140 AFH-600 was designed to be extremely flexible and by establishing fast-changing systems in the shortest time mounted or dismantled to the excavator. So that the using of the GM 140 AFH-600 is very interesting also for short trenching dimensions.



SPECIAL MACHINE PLOUGH



The GMV 130 plow is special designed for tractors and excavators. It can be used as an attachment to 3-point tractor with a continuously variable transmission or creeper from 150 hp as well as hydraulic excavators from 20 tons. The plow has a maximum operating depth of 1.300 mm and simultaneously pipes / cables etc. are drawn up to a maximum diameter of 80 mm.

The plow GMV 130 has a weight of approximately 2.400.0 kg!



GMV 130 Plough

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Technical Data:

Weight:
approx. 2.400 kg
Depending on
the equipment

Pipe diameter:
max. 80 mm

Depths:
max. 1.300 mm





	GM 1-A	GM 1-AS	GM 140 AF	GM 160 AF	GM 160 AS	GM 140 H	GM 140 AFH -500	GM 140 AFH - 600	GMV 130 Plough
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Technical Details - Trencher Attachment



LIBA
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Baumaschinen
GmbH & Co KG
Diekstr. 59,
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Tel: +49591-76314,
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[www.Lingener-
Baumaschinen.de](http://www.Lingener-
Baumaschinen.de)



A condition:	Trencher Attachment Three Point	Trencher Attachment Three Point	Trencher Attachment Three Point	Trencher Attachment Three Point	Trencher Attachment Three Point	Trencher Attachment Three Point	Trencher – Attachment for Excavator One Boom = 140 H Two Boom = 140 H	Trencher – Attachment for all mobil equipment with hydr. power	Trencher – Attachment for all mobil equipment with hydr. power	Vibrating plough for Attachment
Power:	Tractor/Unimog Important the super slowly gear or Hydrostat	Tractor/Unimog Important the super slowly gear or Hydrostat	Tractor/Unimog Important the super slowly gear or Hydrostat	Tractor/Unimog Important the super slowly gear or Hydrostat	Tractor/Unimog Important the super slowly gear or Hydrostat	Tractor/Unimog Important the super slowly gear or Hydrostat	Excavator from 15to, oil consumption 160-250 l/min, 250-350bar	Excuvator from 15to, oil consumption 120-140 l/min, 250-300bar	Excuvator from 15to, oil consumption 140-160 l/min, 250-300bar	Three Point – Tractor or Hydr. Excavator from 20to
Standard equipment:	Standard conveyer hyd.	2 augers	Standard conveyer	Standard conveyer	2 augers	1 or 2 augers turntable hydr.	Standard conveyer turntable hydr.	Standard conveyer turntable hydr.		
Optional equipment: Cutter boom depth:	- 600, 850 and 1.200 mm	- 600, 850 and 1.200 mm	- 600, 850, 1250 and 1.500mm (shiftable)	- 1.250 and 1.600mm (shiftable)	- 1.250 and 1.600mm (shiftable)	- 600, 850, 1.200 and 1.500mm (shiftable)	- 600, 850, 1.200 and 1.500mm (shiftable)	- 600, 850, 1.200 and 1.500mm (shiftable)	- 600, 850, 1.200 and 1.500mm (shiftable)	Plough depths: Max. 1.300 mm
Cutter chain width:	- 70, 120, 150, 200, 250 and 300 mm (optional 44.45 or 75mm pitch.)	- 70, 120, 150, 200, 250 and 300 mm (optional 44.45 oder 75mm Tlg.)	- 70, 125, 150, 200, 250, 300, 350 and 400 mm (75 mm pitch)	- 150, 200, 250,300, 350, 400 and 450 mm (100mm pitch)	- 150, 200, 250, 300, 350, 400 and 450 mm (100mm pitch)	Cutter chain width 1 boom: - 125, 150, 200, 250, 300, 350 and 400 mm Cutter chain width 2 boom: - 500 a. 600 mm (width = all booms) (75 mm pitch)	- 70, 125, 150, 200, 250, 300, 350 and 400 mm (75 mm pitch)	Cutter chain width 1 boom: - 125, 150, 200, 250, 300, 350 and 400 mm (75 mm pitch) Cutter chain width 2 boom: - 500 a. 600 mm (width = all booms) (75 mm pitch)	Cutter chain width 1 boom: - 125, 150, 200, 250, 300, 350 and 400 mm (75 mm pitch) Cutter chain width 2 boom: - 500 a. 600 mm (width = all booms) (75 mm pitch)	Pipe diameter: Max. 80 mm Ø
	- Alligat.chain carbitbits - Cutter chain - Bottom cleaner with mechanical, automatic adjustment - Conveyer for charging 3.000 mm hydr. - Laser system manual or automatic - pipe-laying-system for putting directly pipes	- Alligat.chain carbitbits - Cutter chain - Bottom cleaner with mechanical, automatic adjustment - 2 augers - Laser system manual or automatic - pipe-laying-system for putting directly pipes	- Alligat.chain carbitbits - Mixed chain (Bits + Tools) - Bottom cleaner with mechanical, automatic adjustment - Conveyer for charging 3.000 mm hydr. - Laser system manual or automatic - pipe-laying-system for putting directly pipes	- Alligat.chain carbitbits - Mixed chain (Bits + Tools) - Bottom cleaner with mechanical, automatic adjustment - Conveyer for charging 3.000 mm hydr. - Laser system manual or automatic - pipe-laying-system for putting directly pipes	- Alligat.chain carbitbits - Mixed chain (Bits + Tools) - Bottom cleaner with mechanical, automatic adjustment - 2 augers - Laser system manual or automatic - pipe-laying-system for putting directly pipes	- Alligat.chain carbitbits - Mixed chain (Bits + Tools) - Bottom cleaner with mechanical, automatic adjustment - 2 augers - Laser system manual or automatic - pipe-laying-system for putting directly pipes	- Alligat.chain carbitbits - Mixed chain (Bits + Tools) - Bottom cleaner with mechanical, automatic adjustment - 1 or 2 augers turntable hydr. - Laser system manual or automatic - pipe-laying-system and equipment with cable	- Alligat.chain carbitbits - Mixed chain (Bits + Tools) - Bottom cleaner with mechanical, automatic adjustment - Conveyer for charging 3.000 mm hydr. - Laser system manual or automatic - pipe-laying-system for putting directly pipes	- Alligat.chain carbitbits - Mixed chain (Bits + Tools) - Bottom cleaner with mechanical, automatic adjustment - Conveyer for charging 3.000 mm hydr. - Laser system manual or automatic - pipe-laying-system for putting directly pipes	
Dimens. Trencher aprox: weight length width height (weight/dimensions are depending on the equipment)	600 kg 3.100 mm 1.500 mm 1.100 mm	600 kg 3.100 mm 1.500 mm 1.100 mm	1.800 kg 3.700 mm 1.750 mm 1.800 mm	2.300 kg 4.400 mm 1.500 mm 2.000 mm	2.300 kg 4.100 mm 1.500 mm 2.000 mm	2.800 kg 3.000 mm 1.500 mm 1.400 mm	1.800 kg 3.400 mm 1.500 mm 2.000 mm	2.900 kg 3.400 mm 1.500 mm 2.000 mm	2.400 kg	



More function for your machine.

Whether tractor, wheeled loader or our **Grabenmeister**: We offer useful and practical accessories to you, in order to equip your machines optionally for each employment.

Filling judge:

In various dimensions. According to standard with hydraulically adjustable axle and adjustable filling height. Optionally with auger, compression wheel and hydraulic opening mechanism. Standard capacity: approx. 2 m³.



Filling judge

Filling snails:

For wheeled loaders with hydraulic drive and tractors with three point admission and PTO drive. By hydraulic cylinders vertically and horizontal controllable, as printing and course snail available.



Filling snails

Earth backfilling blades

In different sizes and remarks, generally from high-quality steel manufactured. When desired individually for your need adapted. Backfilling blades are vertically and horizontal controllable by hydraulic cylinders.



Backfilling blades

Moving accessories:

In order to simplify and save through it time the transfer from drainage, lines and cables to, we offer to you practical accessories, with which you settle also the moving work in a processing step. (Hasp, moving role, moving pit etc.)



Moving Accessories

Further accessories on request.

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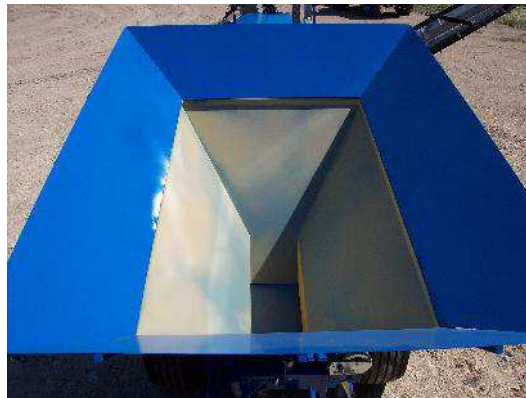
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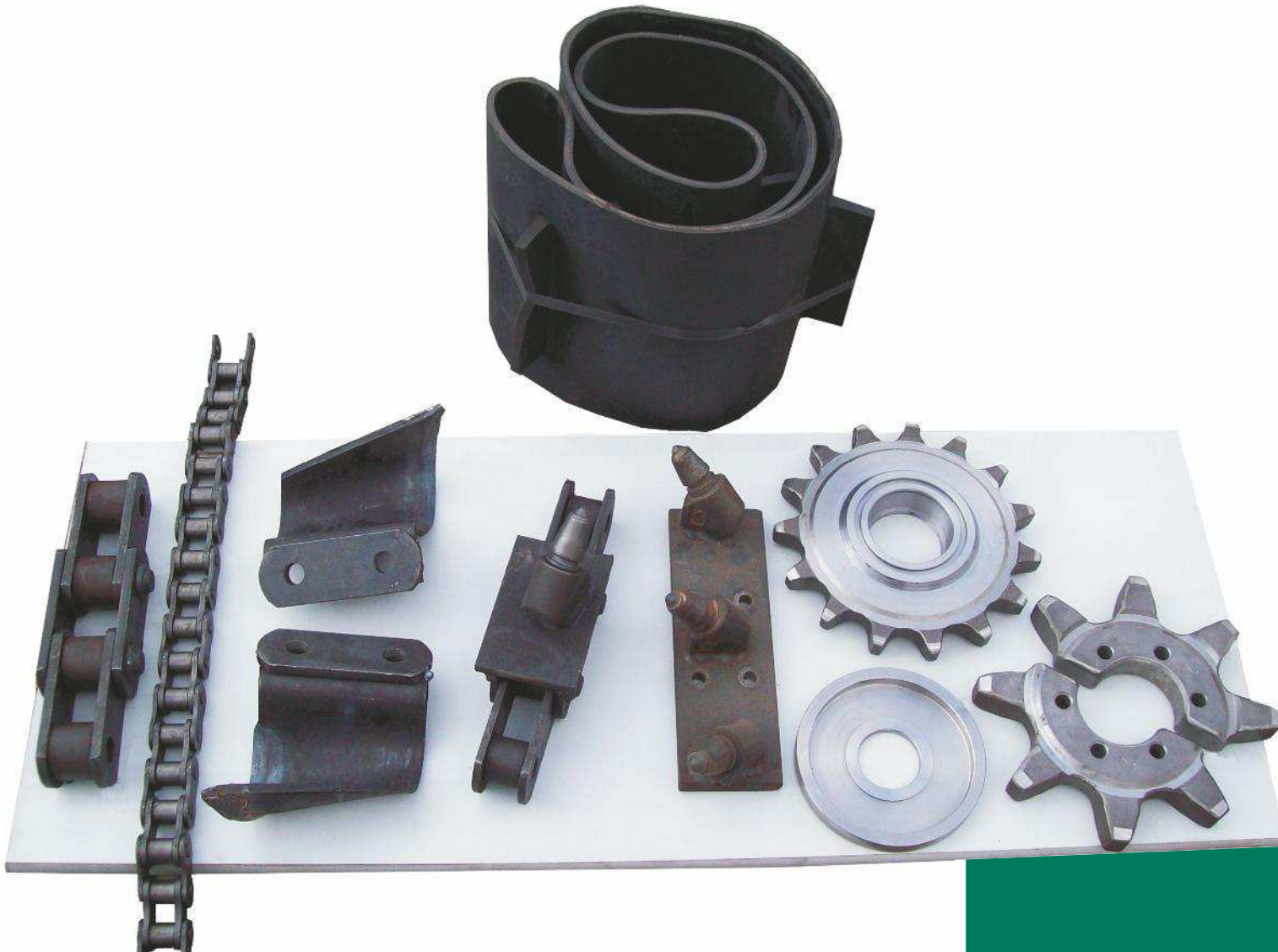
Filling judge:

In various dimensions. According to standard with hydraulically adjustable axle and adjustable filling height. Optionally with auger, compression wheel and hydraulic opening mechanism. Standard capacity: approx. 2 m³.

Further accessories on request.

Filling judge





Still forever.

Of course we manufacture our machines, devices, spare parts and the accessories with highest precision as well as from high-quality materials. A robust execution with long-lived quality guarantees you.

You and we know nevertheless that the employment devices are subject to high loads and requirements; particularly in the earthwork. Completely without wear and wear it does not go thus.

In order to regard down-times as small as possible as you, we have constantly the most usual spare parts in stock. We give those you fast and reliably, or install you also gladly.

They receive spare parts with us from the drive wheel to the gear wheel, for our ditch masters as well as for many other usual manufacturers, like among other things:

- ▶ Chisel
- ▶ Chisel holder
- ▶ Conveyor
- ▶ Bottom cleaner
- ▶ Bearing
- ▶ Hydraulic components
- ▶ Cutter chain (mixed or with blades)
- ▶ Standard chisel
- ▶ Carbon chain
- ▶ Chain sprocket

And if you need an "exotic part", we will certainly find a solution also for that !

Accessories

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Laser auf Stativ



Laser



Receptor

Highest precision for drainage. Laser-based building of drainage is the most efficient method, in order to determine the depths adjustment when moving perfectly. Thus damages at more deeply moved lines and pipes can be prevented among other things and to be reduced later filling to a minimum of expenditure.

That saves annoyance, time and money, with which the investment amortizes at short notice into a laser plant. In order to ensure the necessary flexibility, the lasers at many by us manufactured trenchers are applicable and with few handles installed, whereby the data input becomes uncomplicated and thus fast.

Laser

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Stativ

