TRACK TECHNOLOGY

Möser Maschinenbau GmbH

Our company was founded in 1994 out of the special machine construction for the superstructure building plant of German Railways in Rochlitz.
More than 45 years of experients allows to develop and manufactur different machines and constructions for superstructure and permanent way building of rail vehicle systems (full rail, tram rail, crane rail, light railway and many more) of various kinds.
The special machine construction of the Deutsche Reichsbahn in East Germany was established in Rochlitz in the year of 1973, first by operational proposal in the ambit of superstructure building and the shortage of devices for the mechanical superstructure.
The operational proposal of the Deutsche Reichsbahn in the ambit of superstructure created many ideas, but was missing a capacity for constructive explanation and physical realization.
Furthermore, the existing equipment for superstructure building was technical antiquated and worn-out, so a purchase of new equipment was urgently necessary.
This problem could not be solved by the existing industry in East Germany, so the Deutsche Reichsbahn established an own capacity.

Now we continue our engineering successfully as MÖSER MASCHINENBAU GmbH.

Our plant in Großschirma produces rail specific steel parts and rail draining systems. With the purchase of this field of products we have been able to extend capacities and to strengthen our market position.

certificates

Regarding the quality of our work, we have highest demands. This includes manufacturing of new products as well as reconditioning of already existing machines and devices.

Our company is certified by **ISO 9001:2015**.

Furthermore, we are in possession of:

welding admission **DIN EN 15085 CL1**

and welding qualification **EN 1090**

ZERTIFIKAT

Die Zertifizierungsstelle ÖHMI EuroCert® GmbH Magdeburg bescheinigt hiermit, dass das Unternehmen

Möser Maschinenbau GmbH
Am Bahnhof 12c
09306 Rochlitz

für den Geltungsbereich:

Entwicklung und Herstellung von Sondermaschinen und Sonderfahrzeugen für die Schienenprofilierung einschließlich Zubehör, Reparatur und Serviceleistungen

ein Qualitätsmanagementsystem eingeführt hat und anwendet.
Durch ein Qualitätsaudit wurde der Nachweis erbracht, dass die Forderungen der folgenden Norm erfüllt sind

DIN EN ISO 9001:2015

Das Zertifikat ist gültig bis: 22. Januar 2020
Zertifikat-Registrier-Nr.: CQ-25/04/03
Datum des Re-Audits: 18. Dezember 2018

Magdeburg, den 22. Januar 2017

Leitung der Zertifizierungsstelle

GSI SLV

ZERTIFIKAT

Schweißen von Schienenfahrzeugen und -fahrzeugteilen nach DIN EN 15085-2

Bescheinigung

über die Herstellerqualifikation zum Schweißen von Stahlbauten nach DIN 18800-7:2008-11 Klasse C

Additionally, we ensure quality of our products by employing qualified personnel, education of own trainees and a nearly perfect cooperation of workshop and engineering.

rail welding technology

backings for electrical welding

rail profile	accessories	
S49/54; UIC60; S33	set, consisting of 2 jaws with lateral head forming up to rail edge, sole plate and gripping spring	
DS180/105 Satz		
Ri59/60Satz	consisting of left and right jaw, with lateral head forming up to rail edge, forming piece for rail groove, sole plate and gripping spring	
Ph37Satz		
Kranschienen A45 –A120	consisting of 2 jaws with lateral head forming up to rail edge, sole plate and gripping spring	
transition rails	Ri60/S49 Ph37/S49 Ph37/UIC60 Ri60/UIC60	

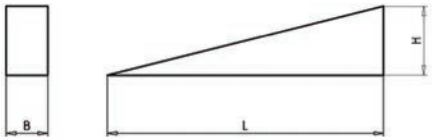
All sets are also available with splitted side jaws. Special types can be produced at any time.

rail adjustment wedges

material: S355 or C45

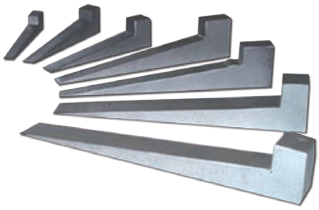
other dimensions or materials are available

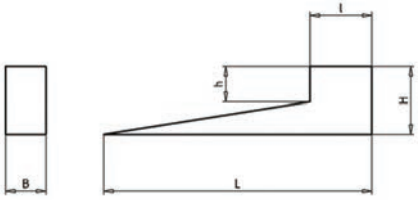
flat wedges



number	length [mm]	width [mm]	height [mm]
128.100:01	150	40	19
128.100.02	250	40	36
128.100.03	200	30	50
128.100.04	130	20	36
128.100.05	150	30	50

wedges with nib





number	L [mm]	l [mm]	H [mm]	h [mm]	B [mm]
128.200.01	155	23	25	13	15
128.200.02	148	25	38	18	20
128.200.03	162	22	36	15	20
128.200.04	237	36	50	22	20
128.200.05	280	27	52	25	30
128.200.06	250	35	50	20	20
128.200.07	150	25	40	20	15
128.200.08	160	25	40	20	20
128.200.09	240	23	40	10	40
128.200.10	330	30	65	25	45

Ro-V 146 shearing knives

New production and reconditioning of shearing knives, no deposition welding, **changing the complete cutting edge**. Reconditioned shearing knives have the same lifetime as knew knifes at lower costs.

Form	S49/54 Form A	UIC 60 Form A	S49/54 Form B	UIC 60 Form B	Ri 59/60	S33
Art.-Nr	146.1A	146.2A	146.1B	146.2B	198.1	146.3

S49/54; UIC 60; S33; VST 36; SBB1; R65

other rail profiles available

Ro-V 295 Thermit-collection pan

rigid and long lasting, weight 4,5 kg

straight edge for switch reconditioning

For welding-technological reconditioning of switches and crossings. steel, chrome-plated, weight 27 kg

specially designed for deposition welding The cage is very light due to the aluminium composite construction. It is equiped with ventilation, seat, light and additional plug for 220VAC or 110VAC. For transportation it can be dismounted easily.

Ro-V 148 protection for electrical welding

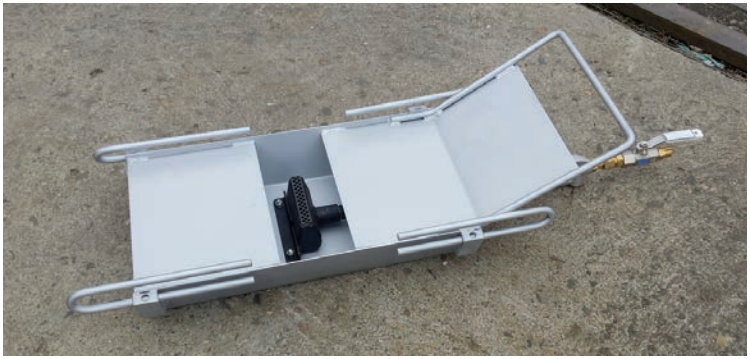
High-performance draisine for warming up rails before welding, with propane burners

drive	Honda 4-stroke [4kVA]
speed	0 - 10 km/h
gas	6x33kg Propane 1x50kg O2
dimensions	2x2m (without bottles)

to be easily dismounted for transport

Ro-V 152 prewarming trolley

incl. 8kW burner



Ro-V 302 heating trough

Ro-V 257
light prewarming trolley

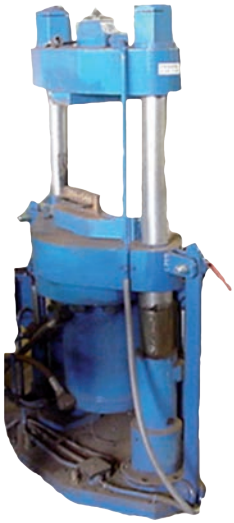
dimensions L x W x H [mm]	2700 x 560 (+1250) x 750
gauge	1435 mm
total weight	54 kg
weight bottle trolley	29 kg
weight burner	22 kg
weight support axle	3 kg
gas consumption at 1 bar	16,5kg/h
gasbottle	33kg DIN 4661

other gauges possible, dismountable, optional hight adjustment

Ro-V 181
UP-welding trolley

supply voltage	42V AC
max load at 100%	1500A DC
wire feed speed	4 m/min
working speed	0,1-2M/min
weight	ca. 180 kg
pulver box capacity	10l
gauge adjustment	1000-1500mm

can be used for wire electrode or cored wire



to manufacture rail transitions for example S49 to Ri60

Max. rail height	200 mm
max pressing force	800 kN
electrical connection	400 V

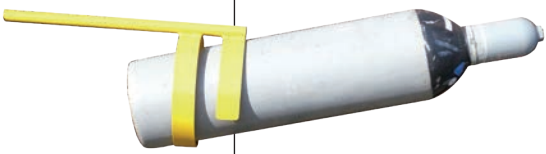
dimensions and design will be manufactured according to client specifications

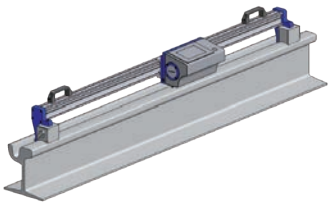
Ro-V 95
steady rail transition press

to manufacture rail transitions at the working sight
compact design without hoses

L x W x H (mm)	400 x 150 x 700
weight	ca. 45 kg
pressing force	15t

Ro-V 131
mobile rail transition press

Ro-V 271 gas bottle carr	small usefull device for carrying gas bottles easily Weight: app. 5kg	
Ro-V 247 rail profile pattern	available for all rail profiles alternatively cant 1:20 or 1:40 with telescopic arm avaiable	
rail template holder Ro-V 247	 track gauge 1000-1435 mm, insulated fitting for Ro-V 247 rail templates	



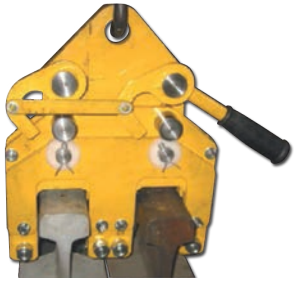
supply voltage	12VDC, 230V AC
measuring length (x)	1000mm
time to use approx.	10h
degree of protection	IP 52
resolution x-Achse	1mm
resolution y-Achse	5µm (+/- 5µm)
data device	SD-Karte
Weight	7,5 kg
evaluation	via MS-Excel

Ro-V 247
rail profile pattern

rail pliers

heavy pliers for vignol rails

Ro-AX 2
vignol rail pliers



The pliers closes automatically when the lever is down. By pulling it upwards the rail will be released if the rail weight is not carried be the plier.

Nr. 216.	4.1	4.2	4.3	4.4	4.5
rails	1	2	3	4	5
load [kg]	1500	3000	4500	6000	7500
weight	9	20	29	39	48

in addition to rail beam Ro-V 216

Ro-V 216.4
semiautomatic . rail pliers

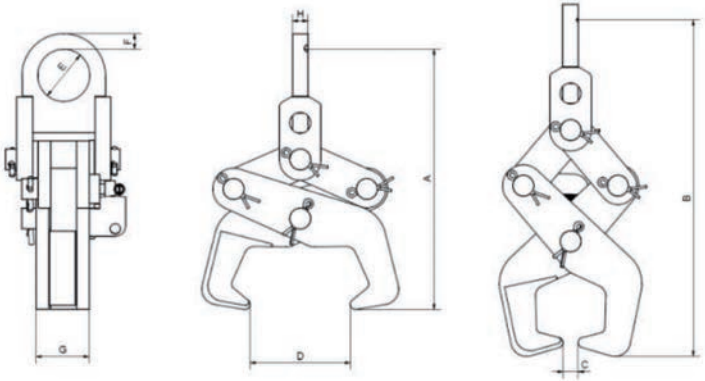
Ro-V 261 grooved rail pliers	heavy rail pliers for grooved rails load capacity 1500kg tare weight 49kg	
Ro-V 266 light pliers for grooved rails	load capacity 1500kg tare weight 3kg	
Ro-V 267 vignol rail pliers	vignol rail pliers with towing edge load capacity 2000kg tare weight 5kg	

	vignol rail pliers for lifting at the rail head or rail foot load capacity 1500kg tare weight 2,8kg	Ro-V 268 vignol rail pliers
	max. load 200 kg tare 5 kg	Ro-V 306a guide rail pliers
	max. load 500 kg tare 9 kg	Ro-V 306b guide rail pliers

roller pliers Ro-V 275

max. load	5000kg
tare	ca. 30 kg
rail profiles fitting	UIC 60, S49, S54

Ro-V 290 rail pliers



Schienenzange										
Typ	Tragfähigkeit	Eigenmasse	A [mm]	B [mm]	C [mm]	D [mm]	E [mm]	F [mm]	G [mm]	H [mm]
Ro-V 290-2000	2000 kg	7,5 kg	250	322	15	95	50	15	51	15
Ro-V 290-4000	4000 kg	22 kg	320	410	10	95	76	31	76	25

rail and sleeper laying beams

for lifting and adjusting of rail sleepers in combination with a rail crane

number of sleepers 20
tare weight: approx. 6t

Ro-V 182
sleeper laying beam

for using with an excavator with at least 10t tare weight

length minimum	1000mm
length maximum	2500mm
width	2000mm
height	700mm
load capacity	4x300kg
sleeper distance	0 bis 750mm
hydraulic pressure	max. 200bar
oil flow	12-25 l/min

Ro-V 215 Bi-Block sleeper laying beam

beam to lift rails up to 18m (25m) length.

tare weight: 550kg
load capacity: 5000kg

in combination with rail pliers Ro-V 216.4 o.a.

Ro-V 216
rail laying beam

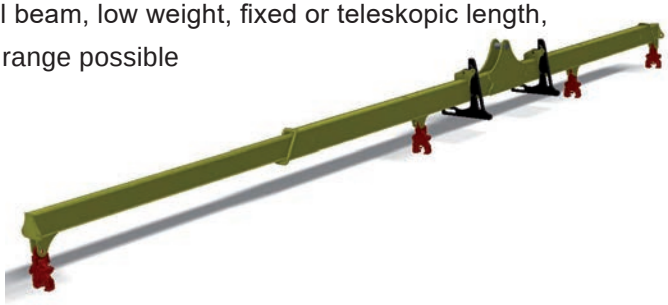
Ro-V 288 rail beam

rail beam with reduced height

length	4000-6000mm
total height	430mm
max. load	1500kg
tare	ca. 350kg

Ro-V 297 telecopic rail beam, manual

mechanical rail beam, low weight, fixed or teleskopic length, custom length range possible



length	4m fix	4-6m	6-10m
max. load	2500kg	2500kg	2500kg
tare	250kg	310kg	390kg

233B-5
sleeper spreader

technical specifications

hydraulic pressure	min. 100 bar
oil flow	ca. 30 l/min
sleeper distance grab	inf. variable from 240 mm
spreading distance	inf. variable to 750 mm
sleeper width	2200 resp. 2400 – 2700 mm in 50 mm steps

number sleepers	5
max. load	5 x 350 kg
tare	ca. 1100kg

233B-4
sleeper spreader

technical specifications

hydraulic pressure	min. 100 bar
oil flow	ca. 30 l/min
sleeper distance grab	inf. variable from 240 mm
spreading distance	inf. variable to 750 mm
sleeper width	2200 resp. 2400 – 2700 mm in 50 mm steps

number sleepers	4
max. load	4 x 350 kg
tare	ca. 1000kg

Ro-V 298 sleeper spreader

hydraulicspreader

for 7 sleepers

number sleepers	7
max. load	7 x 350 kg
tare	ca. 1150kg
spreading distance	einstellbar bis 750mm

Ro-V 269 sleeper laying

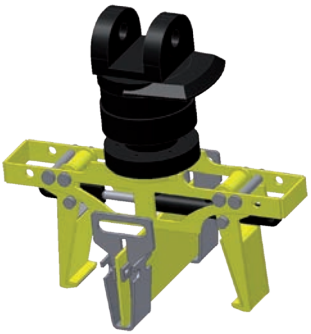
for Bi-Block-sleepers can easily adapted to other sleeper types

tare weight	700 kg
load	6x350kg
hydraulic pressure	max. 200bar
oil flow	12-25 l/min

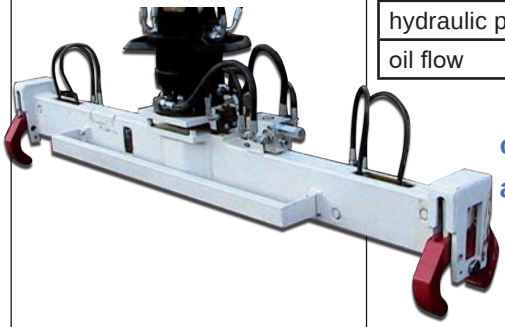
Ro-V 283 double sleeper carrier

to use in combination with an excavator or crane

tare weight	45kg excl. rotator
load	2x350kg
hydraulic pressure	max. 200bar
oil flow	14-20 l/min



Ro-V 284
rail laying beam



length	2150mm
width	330mm
height (without rotator)	430mm
weight	150 kg
load capacity	1200kg
max. raol length	18m
hydraulic pressure	max. 200bar
oil flow	12 l/min

claws for different rail types available

284-T
telescopic rail beam

max. load	1500 kg
tare (without rotator)	280 kg
oil pressure	200 bar
oil flow	ca. 12 l/min
length	3932 mm
length max.	6104 mm
width	550 mm

Ro-V 219 sleeper spreader

design according to clients requirements

Load capacity	1500 kg to 4500 kg
weight	ca. 240 kg (depending on design)

Ro-V 285 Panel and switch beam

Load capacity	12000 kg
tare	1300 kg

Ro-V 299 sleeper handler

handling device for twin-block sleepers (up to 30 pc)

handling device for twin-block sleepers (4x4), twin block

Ro-V 301
sleeper handler

transport wagons

L x B x H (mm) road	6920x2500x1680
L x B x H (mm) rail	7350x2500x1350
axle distance	2,67m
gauge	1435mm
min. curve	50m
tare weight	2600 kg
load	7400 kg
max. speed	20km/h
track torsion	10 ‰
spring braked up to	55 ‰

Ro-V 279
rail - road trolley

load bed	6000/8000 x2500mm
load capacity	17500/20 000kg
tare	3100kg
hauling speed	20kph
brake system	air or hydraulic

Ro-V 293
track construction trolley

Ro-V 196d mobile genset unit

power	60, optional 80kVA
gauge	1000-1520mm
tare	2700-3500kg
driving speed	1-20kph, synchronizing available
coupling system	Rockinger SK 30

Ro-V 307 RR generator trolley

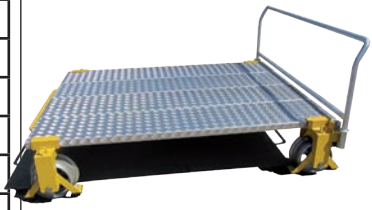
power	25, 40, 60, optional 80kVA
gauge	1435 mm
tare	2700-3500kg
driving speed	1-5 km/h
load capacity	up to 2000kg
load bed	LxW 4000x1900mm
tracking system	mechanical, opt. hydraulical

Length	5800mm
width	2200mm
height	2400mm
track speed	19kph
max inclination rail	7%
min. curve radius	18m
max. superelevation	160mm (1435)
road speed	160kph
track gauge	1435mm optional different/adjustable
engine hp	150 3.0 litre diesel
transmission	6 speed manual
generator	400V 50Hz, 50kVA underfloor generator, splitshaft gearbox
tracking on time	2-3 min
tracking off time	1 min
crane capacity	1000kg
wheel base road	3450 mm
max. weight	3500kg, optional 5000kg
axle configuration road	4x2
axle configuration rail	4x4

Ro-V 305 MPV
Track construction machinery

Ro-V 280 rail trolley

L x W x H (mm)	2070x1895x985mm
loading area (mm)	2000x1758
axle distance	1760mm
gauge	1435mm
tare weight	110 kg
load	1600 kg
spring braked up to	60 ‰



Ro-V 282 small rail trolley

L x W x H (mm)	695x1900x805mm
loading area (mm)	1700x650mm
axle distance	530mm
gauge	1435mm / 1000mm
tare weight	27 kg
load	750 kg
spring braked up to	60 ‰


LIEBHERR
8T

track building equipment

Ro-V 196 transport axles

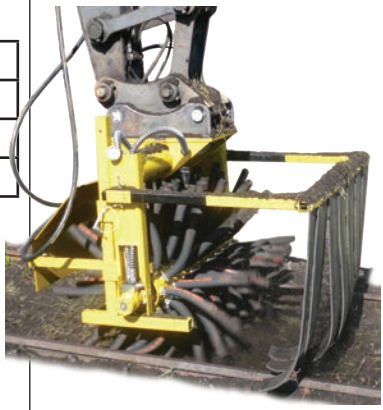
L x W x H (mm)	550x1900x335
tare weight	150 kg
load capacity	10000 kg
gauge	1435mm
conneting rods	3 - 4m or 4 - 6m

optional with center pivote plate, spring locking brake

Ro-V 264 ballast brush

brush width	1000 oder 1500
weight	450 kg
hydraulic pressure	200bar
oil flow	50 - 75 l/min

other brushes available



Ro-V 291 ballast brush

Dimensions (LXWXH)	2120 x 2990 x 1100 mm
Width of ballast brush	2500 mm
Tare	ca. 1650 kg
Oil flow	ca. 120+30 l/min
Rot. Speed brush	infinitely variable
Connection to excavator	Towing bar

Ro-V 289 sand levelling device

length	1328 mm
width	630 mm
height	600 mm
weight	ca. 400 kg
max. oil pressure	350 bar
oil flow function AST 8	75 l/min

Ro-V 186 steady switch blade alignment press

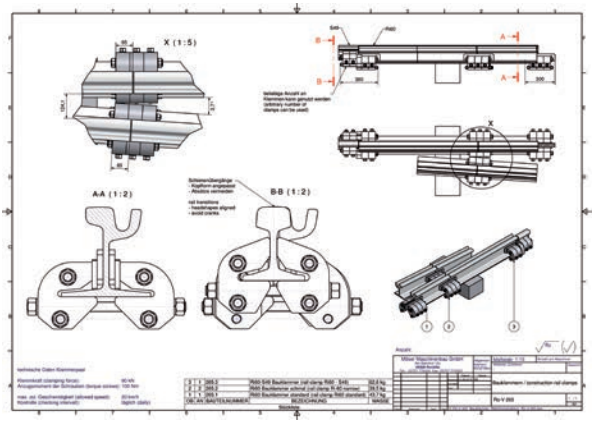
L x W x H (mm)	1500x2000x700
weight	400 kg
weight	150kN
distance between bakings, electrical adjustable	400 - 1200mm

Ro-V 270 rail lifting jack

load capacity	5000 kg
weight	30 kg
stroke	300mm

Ro-V 265 rail clamp

for provisional installation of turnouts, able to drive over also transitions (grooved/vignol) available



for installations of turnouts and construction elements
complete sets and also transition elements (grooved/vignol) available

Ro-V 273
lashing elements

rail mounting clamp
for preliminary fixing of rail joints during slab track construction

weight	35 kg

Ro-V 314
rail mounting clamp

rail grinding technology

Ro-V 129 crane rail grinder

L x W x H (mm)	800x500x850
weight	250 kg
revolution	4000 1/min
electr. connection	400V AC, 15kVA

special design according client specifications

Ro-V 312 turnout grinder

The Ro-V 312 rail grinder has been designed for treatment of turnouts, crossings and track sections, especially to remove lippings and small defects with disc wheels. The Honda GX 200 engine ensures power, reliability and worldwide service.

Optionally the Ro-V 312 is available with electric motor. and belt drive for pure disc wheel use (for deburring and turnout works)

Technical specifications:

power rating petrol	200cc, 6.5hp/4.8kW
power rating electric	3KW at 2900rpm
track gauge	1435 mm, optional adjustable
angles/movements	+/- 40° tilting, 750mm lateral shift, 250mm vertical shift (+70/-150 RTL)
weight	ca. 90 kg/83kg for petrol
stones:	diemater 230-250mm, bore 30/25/22
socket power	400V 32A, 3 kVA, Generator min. 8kVA
options:	crane wheel sets, mono-rail version
dimensions: LxWxH	2050x830x850mm

L x W x H (mm)	1900x1400x1000
weight	250 kg
elektr. Anschluss	400 VAC, 8kVA
electr. connection	5000 1/min
revolution	22mm Dorn
gauge	1000 - 1500mm

additional equipment:

device for grinding inclinations in flat botton switches

additional axles to ensure longer axle distance

grinding with cup and disk stones to reprofile the complete rail head

Ro-V 135.3
light rail grinding machine

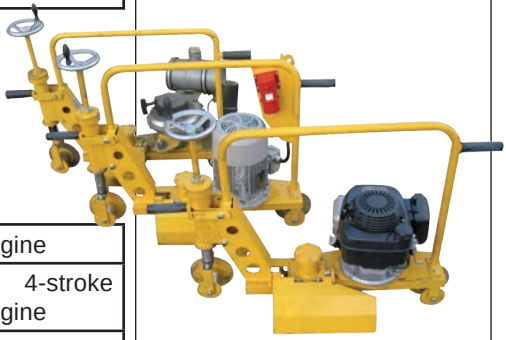
powerful and compact rail grinding machine treatments of turnouts, crossings and track sections combination with RR-Vehicles possible

gauge	1435mm
speed	0-5km/h
stone power	2x11kW
angle range	45° field bis 92° inside
stones	Topfscheiben ø 80-130mm Umfangsscheiben ø 230mm
weight	ca. 500 kg

Ro-V 135.4
2HD 2-stones rail grinder

Ro-V 185
rail joint grinder

weight	50 kg
transmission	belt drive
grinding stones	M20 125x65mm



Ro-V 185 E	4kW E-engine
Ro-V 185 GSV	4,7kW 4-stroke Honda-engine
Ro-V 185 2M	4,7kW 2-stroke Minsel-engine
Ro-V 185 2AS	4,8kW 2-stroke AS-engine

Ro-V 303
rail grinder

technical specifications

Length x Width x Height	1100x600x1200mm
movements	vertical, lateral(tilt), angle
gauge	900-1676mm
angle range	45° field side, 95° inside
weight	ca. 240 kg
stone power	7,5kW optional 11kW
el. connection	400V 32A, 7,9 kVA, generator min. 20kVA

The Ro-V 135.3 V series rail grinders are compact and powerful heavy duty machines, designed for treatment of vignol and grooved rails, turnouts and crossings and crane rails. It can work in both directions. The stone position is operated manually and may be adjusted precisely. This enables the machine to work very well in turnouts, crossings and also grooved rail.

Technical specifications:

	Ro-V 135.3 V1	Ro-V 135.3 V2
length x width x height	2000 x 1250 x 1400mm	2200 x 1250 x 1400mm
feedings	vertikal, lateral, angle	vertikal, lateral, angle
track gauge	1000-1435 mm optional 900/1520/1668/1676 mm	1000-1435 mm optional 900/1520/1668/1676 mm
driving speed	0-5kph in both directions	0-5kph in both directions
number wheels	4+2 turnout rollers	4+2 turnout rollers
angles	30° field side to 40° inside	45° to 95° inner track side
weight	3301 kg with road chasis Ultralight 185 kg (100+19+66)	306kg with road chassis Ultralight 190 kg (105+19+66)
power	18kW (23hp) combustion engine	18kW (23hp) combustion engine
starter	electric	electric + hand start
stones	cup stones ø80-150mm x 65-110mm x M20R	cup stones ø 80-150mm x 65-110mm x M20R disc stones ø230x 10/15/20/23/25/ 50/65 x ø 22 disc stones ø230 x 50/65 x ø 25
lighting	2 x 24V LED	2 x 24V LED

Ro-V 135.3-V1/V2
Rail grinding machine

Ro-V 310
rail milling machine

compact and flexible machine to produce draining slots in grooved rail sections and for treatment of certain local rail defects the rail chassis is adjustable and the trolley carriage enables easy handling by 1 person

technical specifications:

Dimensions (LXWXH)	1300 (+760)x2220x900 mm
milling travel x (rect. track axis)	155 mm
milling travel y (long. track axis)	345 mm
feed travel z (vertical)	200 mm
spindle rotating speed	2850/min
tools	ø10-20mm solid carbide cutters
weight	ca. 195 kg
rail chassis	4x disc wheel, insulated
fixing milling head	2x magnetic block foot
lighting set	1x LED 10W

Ro-V 188
belt grinder

L x W x H (mm)	2000x1500x500
drive	4,7 kW E-Motor
weight	65 kg

specially designed to grind the gauge corner radius

Rail-road ginder for reprofiling, removing corrugation and rolling skin. Because of the compact design the grinder fits in nearly all clearance profiles with 1000mm gauge. It can be transorted in a 40ft-High-Cube Container.

dimensions LxWxH (mm)	4700x1900x2530	
axle distance (mm)	road rail	2900 1520
total weight	6,5 t	
installed power	100kVA; 400V / 230V AC	
grinding modules	6 modules, variable revolution up to 5000 / min 7,5kW per module **cup stones** 100mm or 125mm mounting M 20 or bore 22 mm; grinding angle 45° inside, 15° outside **disk siones** up to 320 mm mounting M 20 left; grinding angle 45° to 90° inside	
max. speed (road / rail)	20 kph	
working speed	10 - 20 m/min (continuously adjustable)	
max inclination	50 ‰ (use of braking vehicle recommended)	
gauge adjustment	1000 bis 1500mm	
dust collection system	8000 m³/h	

Ro-V 149.2
light rail-road grinding machine

Ro-V 195
heavy rail-road grinding machine

Based on the smaller grinding machines the rail grinder Ro-V 195 is a consequent advancement for flexible track maintenance.
All main components are operated electrically.

dimensions LxWxH (mm)	8350x2550x2940/3130	
axle distance	road rail	5400mm 2800mm
total weight	20t	
installed power	170kW	
grinding modules	8 modules, variable revolution up to 5000 / min 11 kW per module angle adjustment -70° to +30°	
speed	road rail	80 km/h 50 km/h
max. inclination	60 ‰ (use of braking vehicle recommended)	
gauge	1000mm; 1435mm	
dust collection system	12000 m³/h	

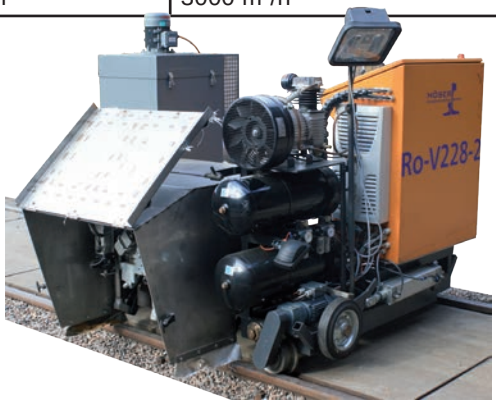
length	12000 mm
width	2525 mm
height (road / rail)	3550/3650 mm
weight	27500 kg
axle load road	9 / 11,5 t / 8 t
axle distance	6000 mm
driven axles	1
road speed	80 kph
rail wheel diameter (LKD)	560 mm
max. rail speed	50 kph
working speed	0-5 kph
inclination	40 ‰ permanent; 80 ‰ intermitting

195-8x
rail grinding vehicle

Ro-V 228 2 or 4
modules rail grinder

To complete our rail grinder series the smaller grinding machine Ro-V228 with two or four modules his been developed.
It may be used for track maintenance for suburban railways as well as trams.

dimensions LxWxH (mm)	2200x2500x1600
axle distance (mm)	1300
total weight	1,5 t
grinding power per module	7,5 kW
modules	**Ro-V 228/2:** 2 modules, revolution up to 5000 / min **Ro-V 228/4:** 4 modules, revolution up to 5000 / min **cup stones** 100mm or 125mm mounting M 20 or bore 22 mm; grinding angle 45° inside, 15° outside **disk stones** up to 320 mm mounting M 20 left; grinding angle 45° to 90° inside
working speed	10 - 20 m/min (continuously adjustable)
inclination	40 ‰ (use of braking vehicle recommended)
gauge adjustment	1000 to 1500mm
dust collection	3000 m³/h



dimensions LxWxH	3754 (7350) x 1930 x 1920 mm
weight	3050 (+2520) kg
rail speed	20 kph
road speed	3 kph
working speed	0-5 kph
grinding power	4 x 11 kW
angle range	45° field bis 92° inside
stones	cup wheels ø 80-130mm disc wheels ø 230mm
rot. speed stones	bis 6000 U/min
dedusting system	3000 m³/h
power supply	80kVA, diesel generator

228-4
rail grinder

customized solutions

Ro-V 169c
heavy duty axles for diesel engines

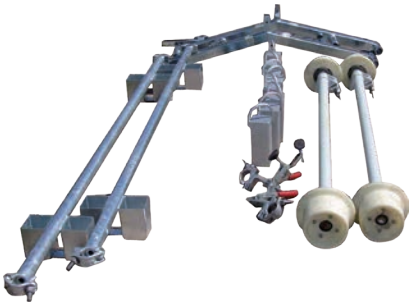
L x W x H (mm)	800x2700x800
weight	700 kg
Load capacity	30t

Ro-V 251
rail foot cleaning device

to clean rail foot before flash butt welding

L x W x H (mm)	2000x1220x1450
weight	1100 kg
grinding power	21 kW

light dismountable axles for trolleys and working planes



Ro-V 276
axles f.e. tube inspection (DEKRA)

special rail chassis for SERSA SWT.

Ro-V 281
special rail chassis 1000mm

Ro-V 175
rail chassis for Multicar

rail equipment for light and heavy duty trucks

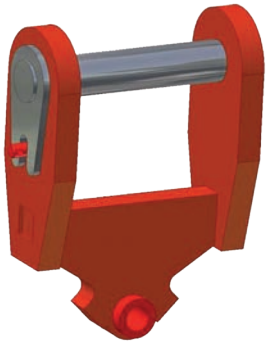
support for rail-road vehicle

L x W x H (mm)	400x2500 (3400)x1120
weight	800 kg

special adapters and quick coupling systems for excavators

We produce special adapters, quick releasing systems or adopt existing tools to new equipment for excavators and cranes.

t.e. excavator mounting device



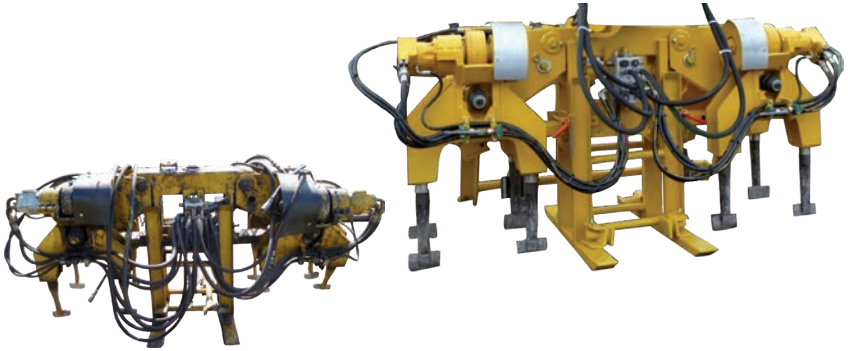
reconditioning of construction parts

Depending on the damage and wear of the cutting plates, bushes and bores we install new plates, regenerate bores and replace bushings.

producing of spare and wear parts

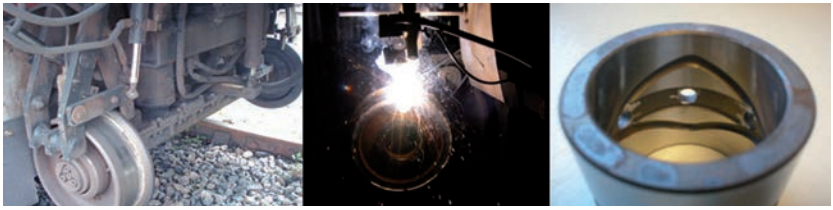
AST8 overhaul tamping unit

From general maintenance work up to complete overhaul of AST8 tamping devices



other wearing parts

- overhaul of grinding modules
- reconditioning and producing of special rail wheels
- reconditioning guideways and bushings
- build up welding and production of wear protection
- reconditioning and producing of shafts for belt conveyors
- producing of complex welding parts and assemblies
- maintenance of small machines and devices



design and building of special machines

We design and manufature new or rebuild old machines according to clients requirements. With our longtime experience while working for German Railway we gladly support our customers with help and advice and we try to find the most efficient solution.

mechanical manufacturing according to customers demands

mechanical fabrication:	deforming technology:
• turning up to 1200 mm diameter • milling (CNC / conventional) • boring mill works • cylindrical grinding • broaching • honing (in coop.) • heat treatment (in coop.) • chromatizing and metalisation	• horizontal straightening and bending press 250t • open front press 25t • rund bending machine for rails • 3 cylinder bending press • plate shear 4x2000 mm

Superstructure material

Track draining boxes

- **for grooved rails:** 53 Ri1 to 67 Ri1
- **for vignol rails:** 41 E1 to 60 E1
- **for special rail profiles**

Designs/ Gauges

We produce welded boxes for standard gauges as well as for special profiles and heights of all rail profiles. The standard boxes are made of 10mm steelplate with a drain (ø 101,6 x 8 mm) in the center and a double secured lid made of bulb plate. Always contained in the scope of delivery are gutters, which are mounted on both sides of the neck of the rail and then placed on the box or, if desired, bolted on as well.

Special Designs

We produce all various kinds of special designs to fit your rails or desires: lateral drains, different diameters or types of lids. So we also offer a rattle free variation with a tripartite lid, on which the outer parts of the lid are fully welded and the middle segment is placed on permanently elastic rubber strips, bolted shut and secured by blocking discs.

Individual system solutions

We manufacture complete cross drainages according to your specification. We are also happy to provide you with information according to load classes, e.g. choosing the right lid.

Bolted lid

Track draining boxes

- **for grooved rails:** 53 Ri1 to 67 Ri1
- **for vignol rails:** 41 E1 to 60 E1
- **for special rail profiles**

Construction types

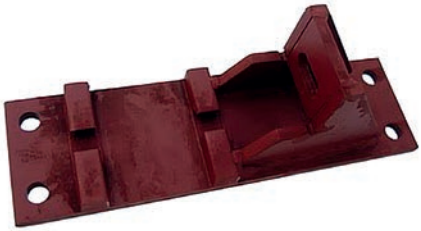
The standard type consists of a bolted lid made of bulb plate (15mm) and a vertical outlet ø 101,6 x 8 mm and is bolted to the rail neck with a track rod srew.

Special types

Please ask for solutions to your special situation. We manufacture all kind of variations of lids, like secured cast molded lids, lateral drains, welded tabs for mounting it to the rail neck and various special sizes and measurements.

Track check rail Panel

- **for grooved rails:** 53 Ri1 to 67 Ri1
- **for vignol rails:** 41 E1 to 60 E1
- **for special rail profiles**



Components and accessories

In our welding workshop with highly qualified personnel, we manufacture track check rail panels, prolonged corrugated panels of various designs and many other components for the superstructure according to your requests, e.g.

- rail pads
- supporting structures

cost effective track groove substitute

Z-profile 80x50x6x7 mm

material: S235JRG2

Z-profile 100x55x6,8x8 mm

material: S235JRG2

Scope of application:

All rail profiles, which subsequently require a groove, e.g. 41 E1 bis 60E1

construction

Z-profiles usually are delivered in a structural length of 6m and drilled holes according to the corresponding rail profile. Other lengths and drilling patterns are possible. We gladly make an offer to fit your needs.

Fastening screw

Z-Profil mounted

Track rods made of different profile steel. E.g. flat 70x10 mm u.a.

- **for grooved rails:** 53 Ri1 to 67 Ri1
- **for vignol rails:** 41 E1 to 60 E1
- **for special rail profiles**

Gauge

Apart from the standard gauges we also manufacture special lengths according to your needs, e.g. for inhouse railways, turn outs or bridges.

Special constructions

We offer all types also in special designs, e.g. angulated, isolated or the special RS- rod to fix underneath the paving. We also offer the track rod for vignol rails, that resembles a rod of round steel, which is buckled around the rail foot.

Accessories

track rod screws with nut
different variations of spacer plates
clamp plates
stone bolts
thread rods

Production guidelines

Construction in accordance with the relevant VDV- and VOV-Superstructure-regulations, length tolerances accordung to DIN EN ISO 13920-CG

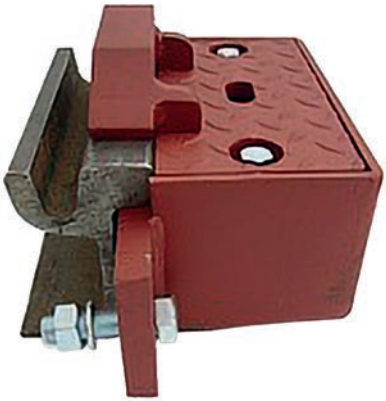
Track closures, fixed or hinged, for rail profiles: 53 Ri1 to 67 Ri1 and 41 E1 to 60 E1

Check rail steel plates, sole plates and perforated plates for rails

Angles and base plates for rail supports

Grounding boxes in different variations

Boxes for power shift



Fields of application

Among other things tracl closures for the rail profiles S 49, UIC 60, Ph 37, Ri 60 are used in tram depots and industrial railways. According to your tram type, we manufacture various heights, e.g. for low floor units.

Construction

Hinged track closures are produced with fuse boxes. If required, we also provide you with the necessary fixing materials.

Production hints:

Track and rail drainage systems usually are primed with rust protection paint. For special application sceanrios we also supply you with galvanized parts.

Track closure 60Ri flat (hinged)

Track closure 60Ri flat (fixed)

Track closure 60E1 (fixed)

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