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Track laying & maintenance equipment

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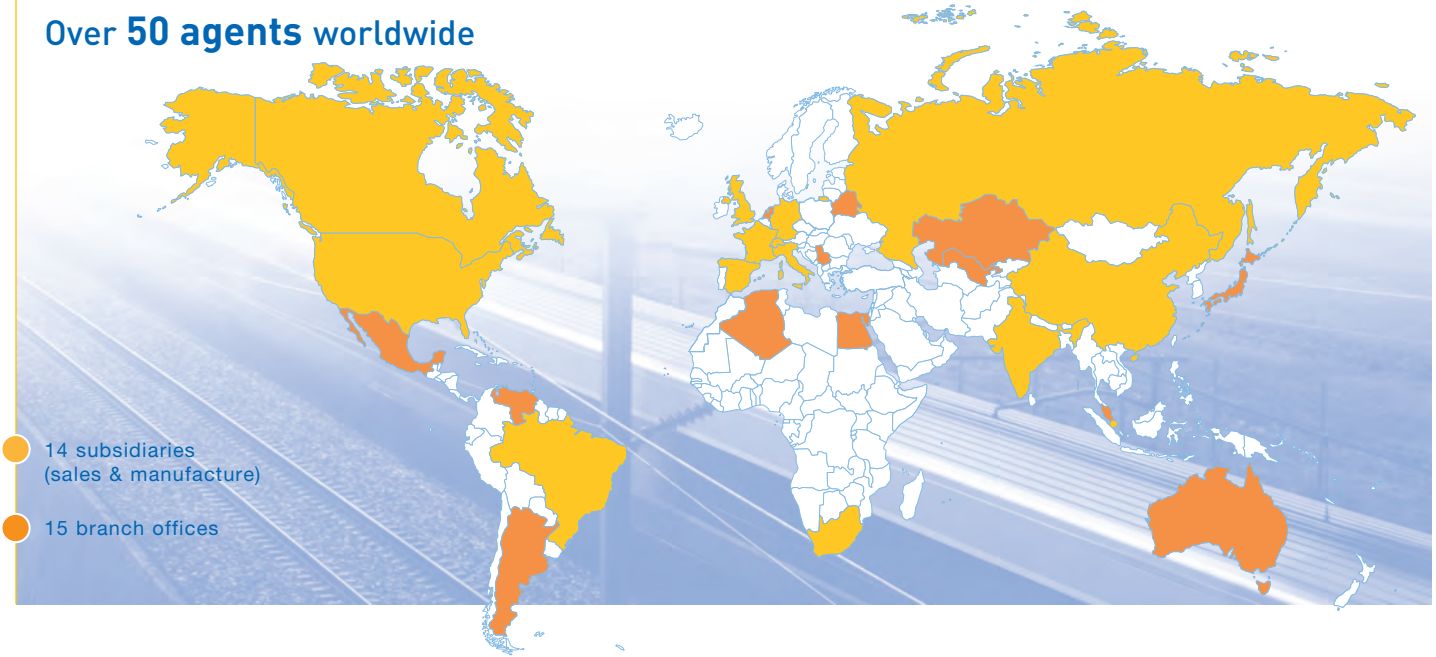

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contents

	INTRODUCTION PAGES	CHAPTERS PAGES
Evolution and range	22	
Guide of use	27	
Contents	2	
1 RAIL	2	33 to 70
2 FASTENINGS	4	71 to 90
3 SLEEPERS	6	91 to 98
4 MULTI-FUNCTION	6	99 to 108
5 TRACK WORKS	7	109 to 140
6 TRANSPORT	10	141 to 170
7 HANDLING	12	171 to 182
8 LIGHTING	14	183 to 186
9 SAFETY & RESCUE	14	187 to 196
Index	16	

CONTENTS

CHAPTER 1 RAIL

	MODEL	PAGE
CUTTING		
Blade **saws**	SRH	34
Disc **cuttters**	MTZ*	35
DRILLING		
Drills:		
• *with hollow drill bits*	PR2	36
• *with carbide tools*	PRZ	37
	PRUL*	38
• *with standard drill bits*	PR7 S*	39
	PR8	40
• *bond drill powered by a multi-function set*	GMSL	100
WELD SHEARING		
Weld shears:	ESN3	41
	ESN4	42

CHAPTER 1 RAIL

	MODEL	PAGE
GRINDING		
Mechanical grinding **set**	EMX-M	43
Multipurpose **portable grinder**	PHG 2	44
Off-trackable grinders:		
• *profile grinders*	MP5	45
	MP12*	46
	MP23	47
• *profile and turnouts grinders*	MP6	48
• *turnouts grinder*	MC3*	49
• *vertical rail grinder*	MV3	50
• *fishing table grinder*	MS9	51
• *vertical joint grinder*	MJ18	52
• *corrugation grinder*	MOD 12	53
Preventative grinding **vehicle**	VMR 445	54

*/*Hydraulic versions driven by a multi-function set: GH5/10

CHAPTER	MODEL	PAGE
1 RAIL — **Hand held grinding tools** *driven by a multi-function set:*	GMSL	100
	GH5/10	101
CLEANING		
Descaling machines	DK3	55
	DER 672	56
Hi pressure **wagon**	W40N HP	57
Hand tool *powered by a multi-function set:*	GMSL	100
HEATING		
Heaters	SH 4, 8 & 12	58
DESTRESSING		
Rail **knockers**	MR512	60
	FRHP	60
1 RAIL — *Rail* **lifters**	L2R 522	61
	LRH	62
Hydraulic **tensors**	THR 542	63
	TH 70 & 120 VL	64
Heaters	SH 4, 8 & 12	58
BENDING		
Benders:		
• *horizontal*	JB-JC	65
• *horizontal & vertical*	JLP 75	66
• *vertical*	JA	67
• *switch blade*	JP 90	68
	JL30	69
• *stationnary bender*	VO 406	70

CHAPTER 2

FASTENINGS

RAIL-SLEEPER

THREAD TYPE : TIGHTENING -UNTIGHTENING

	MODEL	PAGE
Portable power wrench	MIW 3*	72
Mechanical coach-screwing machines:		
• *heavy duty*	TS	73
	TB	74
• *maintenance*	TEM	75
Mechanical coach-screwing machines with torque assistance:		
• *portable*	TMI 2*	76
• *with hydraulic assistance*	TPAS	77
• *with pneumatic assistance*	TC	78

CHAPTER 2 FASTENINGS

	MODEL	PAGE
Hydraulic coach-screwing machine		
• *digitale*	TDH 2	79
Programmable coach-screwing machine		
• *2-head machine*	T 2002	80
Coach-screwing track unit		
• *sleeper fixing machine with built-in tightening heads*	LFT	121
Bolt remover *(“k” fastening)*	MEB	81

CLIPS

	MODEL	PAGE
Portable clippers	APL 6	82
Compact clipper	AP 3	83
Clipper	AP 21	84

*/*Hydraulic versions driven by a multi-function set: GH5/10

CHAPTER 2 — FASTENINGS

SPIKES

	MODEL	PAGE
extracting:		
• *Self-contained spike* **puller**	AS 3	85
• **Hand tool** *driven by a generating set*	SP3*	103
inserting:		
• *Self-contained spike* **driver**	PSD3	86
• **Hand tool** *driven by a generating set*	SD1*	103

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CHAPTER 2 — FASTENINGS

FISHPLATES

	MODEL	PAGE
fastening & unfastening		
Bolting machines:		
• *portable*	MIW 3	88
• *high power*	BSR8	87
• *combined bolting - coach-screwing machine*		
	TB	74 / 89
	TS	73 / 90
	TEM	75 / 90
	TPAS	77 / 90
	TC	78 / 90
Magnet *for collecting fastenings and ferrous materials*	OEA	140

CONTENTS

CHAPTER 3 **SLEEPERS**

	MODEL	PAGE
DRILLING OF WOODEN TIES		
Drills:		
• *heavy duty*	PT8	90
• *light*	PTSL	93
• *portable*	PTXL*	94
• *drilling with a portable power wrench*	MIW 3	72
• *self-propelled sleeper fixing machine with built-in wooden tie drilling heads*	LFT	121
CUTTING OF WOODEN TIES		
Sleeper saw attachment *for loader/excavator*	TTB 220	95
Re-adzing machine	REEN	96
Chamfering machine	DN80	97

CHAPTER 4 **MULTI-FUNCTION**

	MODEL	PAGE
Multipurpose *super light set*	GMSL	100
Multipurpose hydraulic power packs	GH 5 & 5/10	101
• *Range of tools*		102-103
Road-rail **loaders:**	KGT-4RS	104
	KGT-E	105
	KGT-P	108
• *Range of attachments*		106-107

*/*Hydraulic versions driven by a multi-function set: GH5/10

CHAPTER 5

TRACK WORKS

LAYING & RENEWAL

	MODEL	PAGE
turnouts and mounted panels		
Modular substitution gantries:		
• *radiocontrolled gantries*	PEM 807	111
	PWP	112
Trolleys for longitudinal transport:	LEM 460	110
Trackpanel laying and removal system:	S2PV	113
	SPAC	114
panels and sleepers		
Laying & renewal gantries:	PTH 350-500	115
slab track		
Slab track positioning unit *radiocontrolled gantries*	PRV 550	116

CHAPTER	MODEL	PAGE
rails and/or sleepers		
Gantries *radiocontrolled gantries*	PMC 8101	117
Rail **threader**	MPR	118
sleeper replacement method		
Ballast clearing *attachment for loader/excavator*	ODC	119
Sleeper **changing machine**	MRT 2/4 SR	120
Sleeper **fixing machine**	LFT	121

CHAPTER 5

TRACK WORKS (cont'd)

	MODEL	PAGE
SLEWING		
Slewing machine	**RV100**	122
LIFTING		
Track lifting machine	**LNR 528-529**	123
TAMPING		
Self-powered vibrator	**VPS**	124
	VBZ	125
Tamping sets:		
• *electric set*	**GB4 S**	127
Tamping tools:		
• *vibrators*	**VIBH***	103
• *percussion tamper*	**TT1A***	103

CHAPTER 5 — TRACK WORKS

	MODEL	PAGE
Light tamper	**BLH 20**	128
Hydraulic tamping unit *for loader/excavator* **:**		
• *1-head or 2-head*	**MB**	129
• *2-head*	**MB8 AC**	130
Hydraulic tampers:		
• *2-head off-trackable tamper*	**BRAD**	131
• *2-head modular tamper for track & turnouts*	**BRM8 AC**	132
BALLAST PROFILING		
Brush *mounted on loader/excavator*	**BRV**	133

*/*Hydraulic versions driven by a multi-function set: **GH5/10**

5 CHAPTER | MODEL | PAGE

TRACK WORKS

INFRASTRUCTURE MAINTENANCE

Vehicles

Track motorcars:

• *bridge inspection*	**VMT IOA**	134
• *snow-clearing*	**VMT CN**	135
• *weed-killing*	**VMT DES**	136
• *brush-cutting*	**VMB DEB**	137

5 CHAPTER | MODEL | PAGE

TRACK WORKS

Attachments for loader/excavator:

• *ditch cleaning rotor*	**OTC**	138
• *ditch clearing buckets*	**OGC**	139
• *brushwood cutter*	**ORD**	138
• *grass cutter*	**ODL**	138
• *retro buckets*	**OGR**	139
• *hydraulic hammer*	**OBR**	139
• *vertical drill*	**OPV**	140
• *magnet*	**OEA**	140

CHAPTER 6

TRANSPORT

OF PERSONNEL, FOR INSPECTION OR SPOT WORKS

	MODEL	PAGE
Track motorcars:		
• *with cab of personnel transport*	VMT 400	160
	VMT 700	161
	VMT 800	162
	VMT 900	163
• *with bogies*	VMB	164
Motortrolleys:		
• *off-trackable*	RH2	142
	MINI 4	143
	VT 4141	145
• *maintenance and transport rail car*	VT 438	144

CHAPTER 6

TRANSPORT

OF EQUIPMENT AND MATERIALS

	MODEL	PAGE
Trolleys:		
• *monorail*	CMM 476	146
• *classical*	CH	147
• *auto braking*	LLF 471	148
• *self-propelled*	LLM 401	149
Transport trolleys *(up to 400 t payload)*	MA, TR	150

6 TRANSPORT

CHAPTER	MODEL	PAGE
Trailers:		
	RT	152
• *modular*	**RTM**	151
• *tilting*	**RTB**	153
• *ballast hopper*	**R10BAL**	154
• *workshop*	**RTA**	155
• *heavy plant transport*	**R25TR**	156
• *heavy plant transport*	**UTE 400**	157
LWRs transport:		
• **LWR TRANSPORT TRAIN**		158
• *mini-wagons*	**TMW**	159
Turnouts longitudinal transport:		
	LEM 460	110

6 TRANSPORT

CHAPTER	MODEL	PAGE
MULTIPURPOSE VEHICLES		
Track motorcars:		
• *light*	**VMT 400**	160
• *track maintenance*	**VMT 700**	161
• *worksite track*	**VMT 800**	162
• *heavy-duty*	**VMT 900**	163
• *with bogies*	**VMB**	164
Road-rail vehicles	**V2R range**	165/6/7
TOWING VEHICLES		
Road-rail shunters	**P2R 200 E**	168
Shunters	**VTL-VTB**	169-170

CHAPTER 7

HANDLING

OF RAILS

	MODEL	PAGE
track positioning		
Rail **pullers**	ATR	172
Gauge adjuster	ARR 531	173
Sleeper fixing machine with built-in **gauge adjusting device**	LFT	121
lifting		
Sleeper fixing machine with built-in **rail lifting and positioning device**	LFT	121
Rail **changers**	PSR	174
	PMR	175

HANDLING

CHAPTER 7

	MODEL	PAGE
Rail loaders *mounted on wagon*	CR	177
Trolley *with handling jib*	MA, TR	150
Grabs *for loader/excavators*	PAR	176
	OMR	176
Short rail handling *with a sleeper fork*	OFT	180
Multipurpose road-rail loaders *for handling and track works*	KGT-4RS	104
	KGT-E	105
	KGT-P	108
LWRs unloading		
Road-rail **trailer**	EMD	178
System *to tow & unload rail*	STR	179

HANDLING

CHAPTER 7 OF SLEEPERS	MODEL	PAGE
Carrying beam *with track laying gantries*	PTH 350-500	115
Replacement *by extracting and inserting*	MRT 2/4 SR	120
Forks and beams for loader/excavator:		
• *front fork*	OFF	180
• *sleeper fork*	OFT	180
• *chain girder*	PCT	181
• *hydraulic girder*	PTV	181
Multipurpose road-rail excavators *for handling and track works*	KGT-4RS	104
	KGT-E	105
	KGT-P	108

HANDLING

CHAPTER 7 OF BALLAST	MODEL	PAGE
Attachments for loader/excavator:		
• *Front buckets*	OBF	182
• *Clamshell buckets*	OBP	182
• *Cribs clearing tool (prior to resleepering)*	ODC	119
• *Finish brush*	BRV	133
Multipurpose road-rail loaders *for handling and track works*	KGT-4RS	104
	KGT-E	105
	KGT-P	108
Ballast-moving vehicles:		
• *Unloading from ballast-hopper*	R10BAL	154

CHAPTER 7 **HANDLING** (cont'd)

	MODEL	PAGE
OF FASTENINGS		
Magnet *for collecting fastenings and ferrous materials*	OEA	140

CHAPTER 8 **LIGHTING**

	MODEL	PAGE
Floodlights	PCB	184
Generators	GE	185
Standalone portable rechargeable **tracksite floodlight**	PCD	186

CHAPTER 9 **SAFETY & RESCUE**

	MODEL	PAGE
SAFETY		
Warning **devices**	AVS 1-2	188
	AVS 3-4	189
RESCUE		
Equipment for personnel:		
• *trolleys with stretchers*	CH	192
Hydraulic rerailing equipment	MDR	191
Rescue trolley *for damaged bogies*	C2D	190
Lightweight vehicle *for emergency purposes*	MINI 4-4	193
Fire fighting **road-rail vehicles**	V2R LAI	194

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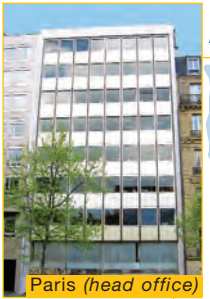
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INDEX OF EQUIPMENT

	MODEL	PAGE
B		
Ballast *cribs clearing beam*	ODC	119
Ballast *hopper trailer*	R10BAL	154
Sleeper ***beam*** *with chains*	PCT	181
Hydraulic ***beam*** *for sleepers*	PTV	181
Vertical rail joint ***benders***	JA	67
Horizontal rail ***benders***	JB - JC	65
Light switch blade ***bender***	JL30	69
Light horizontal rail ***bender***	JLP 75	66
Rails and switch blade ***benders***	JP 90	68
Stationnary ***benders***	VO 406	70
Rescue trolley for damaged ***bogies***	C2D	190
High power ***bolting*** *machine*	BSR8	87
Bridge *inspection track motorcar*	VMT IOA	134
Track ***brush***	BRV	133
Hydraulic ***brushcutter***	ORD	138
Brush-cutting *track motorcars*	VMB DEB	137
Front ***buckets***	OBF	182
Clamshell ***buckets***	OBP	182
Clearing ***buckets***	OGC	139
Retro ***buckets***	OGR	139
C		
Chamfering *machine*	DN80	97
Rail ***changers***	PSR	174
LWR roller ***clamp***	OMR	176
High pressure ***cleaning*** *wagon*	W40N HP	57
Compact ***clipper***	AP 3	83
Multipurpose ***clipper***	AP 21	84
Portable hydraulic ***clipper***	APL 6	82
2-head programmable ***coach-screwing*** *machine*	T 2002	80
Combined mechanical ***coach-screwing*** *and fishbolting machine*	TB	74/89
Maintenance ***coach-screwing*** *machine with pneumatic torque assistance*	TC	78/90
Digital hydraulic ***coach-screwing*** *machine*	TDH 2	79
Mechanical maintenance ***coach-screwing*** *machine*	TEM	75/90
Portable ***coach-screwing*** *machine with pneumatic assistance*	TMI 2	76
Heavy duty ***coach-screwing*** *machine with hydraulic torque assistance*	TPAS	77/90
Heavy duty mechanical ***coach-screwing*** *machine*	TS	73/90
Safe disc ***cutter***	MTZ	35
D		
Rail ***descaling*** *machine*	DER 672	56
High output rail ***descaling*** *machine*	DK3	55
Ditch *cleaning rotor*	OTC	138
Vertical ***drill***	OPV	140
Super light weight rail ***drilling*** *machine for hollow* ***drill*** *bits*	PR2	36
Super light weight rail ***drilling*** *machine with carbide bits*	PRZ	37
Double feed ***drill***	PR8	40
The reference rail ***drills***	PR7 S	39
Carbide tools rail ***drill***	PRUL	38
Heavy duty sleeper ***drill***	PT8	90
Maintenance light sleeper ***drill***	PTSL	93
Portable sleeper ***drill***	PTXL	94
E		
Lightweight vehicle for ***emergency*** *purposes*	MINI 4-4	193
*Road-rail loader/****excavator***	KGT-4RS	104
Powerful road-rail ***excavator***	KGT-E	105
*Powerful road-rail loader/****excavator***	KGT-P	108
F		
Portable hydraulic clipper for ***Fastclip*** *insertion and extraction*	APL 6	82
Floodlights	PCB	184
Standalone portable rechargeable tracksite ***floodlight***	PCD	186
Front *fork*	OFF	180
G		
Radiocontrolled self-propelled substitution ***gantries***	PEM 807	111
Switches laying and removal ***gantries***	PWP	112
Gantries *for replacement of S & C units*	PMC 8101	117
Track laying and renewal telescopic ***gantries***	PTH 350-500	115
Rail track ***gauge*** *narrowing device*	ARR 531	173
Lighting ***generators***	GE	185

	MODEL	PAGE
Blade **grasscutter**	ODL	138
Hydraulic rail **grab**	PAR	176
Mechanical **grinding** set	EMX-M	43
Turnouts **grinder**	MC3	49
Rail joint **grinder**	MJ18	52
Corrugation **grinder**	MOD12	53
Ergonomic rail profile **grinder**	MP 23	47
Multipurpose portable **grinder**	PHG 2	44
Rail profile **grinder**	MP12	46
Light rail profile **grinder**	MP5	45
Profile **grinder** for rails & turnouts	MP6	48
Rail web and fishing table **grinder**	MS9	51
Vertical rail **grinder**	MV3	50
Preventative **grinding** vehicle	VMR 445	54
H		
Hydraulic **hammer**	OBR	139
Rail **heaters**	SH	58
I		
Inspection motortrolley	RH2	142
Inspection vehicle	VT 4141	145
K		
"K" bolt removing machine	MEB	81
Rail knocker	FRHP	60
Rail **knocker**	MR 512	60
L		
Hydraulic rail **lifter**	L2R 522	61
lightweight track **lifting** machine	LNR 528-529	123
Hydraulic rail **lifter**	LRH	62
Rail **loaders**	CR	177
Road-rail **loader**/excavator	KGT-4RS/-E/-P	104/6/8
Road-rail trailer for **LWRs** unloading	EMD	178
M		
Magnet	OEA	140
Light multipurpose **motortrolleys**	MINI 4	143
Inspection **motortrolley**	RH2	142
Light track **motorcars**	VMT 400	160
Track maintenance **motorcars**	VMT 700	161
Worksite track **motorcars**	VMT 800	162
Heavy-duty **motorcars**	VMT 900	163
Heavy-duty **motorcars** with bogies	VMB	164
Multipurpose hydraulic power packs	GH 5 & 5/10	101
Multipurpose super light tool set	GMSL	100
P		
Slab track **positioning** units	PRV 550	116
Rail **pullers**	ATR	172
Multipurpose hydraulic **power packs**	GH 5 & 5/10	103
R		
Continuous feed horizontal **rail** bender	VO 406	70
Aluminium **rail** changers	PMR	175
Rail changers	PSR	174
Rail descaling machine	DER 672	56
High output **rail** descaling machine	DK3	55
Vertical **rail** joint benders	JA	67
Horizontal **rail** benders	JB - JC	65
Light horizontal **rail** bender	JLP 75	66
Rail joint grinder	MJ18	52
Corrugation grinder	MOD12	53
Ergonomic **rail** profile grinder	MP 23	47
Rail profile grinder	MP12	46
Light **rail** profile grinder	MP5	45
Profile grinder for **rails** & turnouts	MP6	48
Rail web and fishing table grinder	MS9	51
Vertical **rail** grinder	MV3	50
Hydraulic **rail** grab	PAR	176
Super light weight **rail** drilling machine for hollow drill bits	PR2	36
Super light weight **rail** drilling machine with carbide bits	PRZ	37
The reference **rail** drills	PR7 S	39
Carbide tools **rail** drill	PRUL	38
Rail heaters	SH	58
Hydraulic **rail** lifter	L2R 522	61
Hydraulic **rail** lifter	LRH	62
Rail loaders	CR	177
Rail knocker	FRHP	60
Rail knocker	MR 512	60
Rail pullers	ATR	172

INDEX OF EQUIPMENT

	MODEL	PAGE
Blade **rail** saws	SRH	34
Rail tensors	TH 70 & 120 VL	64
Rail tensor	THR 542	63
Range of attachments	KGT	106/7
Range of tools	GH 5 & 5/10	102/3
2-head ontrack **readzing** machine	REEN	96
"K" bolt **removing** machine	MEB	81
Hydraulic **rerailing** equipment	MDR	191
Road-rail loader/excavator	KGT-4RS	104
Powerful **road-rail** excavator	KGT-E	105
Powerful **road-rail** Loader/excavator	KGT-P	108
Road-rail shunting vehicles	P2R 200 E	168
Road-rail vehicles range	V2R	165/6/7
S		
Blade rail **saws**	SRH	34
Lightweight abrasive rail-**saw**	MTZ	35
Sleeper saw	TTB 220	95
Mechanical grinding **set**	EMX-M	43
Multipurpose super light tool **set**	GMSL	101
Modular weld **shear**	ESN3	41
Powerful and lightweight weld **shear**	ESN4	42
Shunters with axles	VTL 200-500	169
Shunters with bogies	VTB 1000	170
Road-rail **shunting** vehicles	P2R 200 E	168
Sleeper beam with chains	PCT	181
Sleeper changing machine	MRT 2/4 SR	120
Heavy duty **sleeper** drill	PT8	90
Maintenance light **sleeper** drill	PTSL	93
Safe & portable **sleeper** drill	PTXL	94
Sleeper fixing machine	LFT	121
Sleeper fork	OFT	180
Track **slewing** machine	RV100	122
Snow clearing track motorcar	VMT CN	135
Spike pullers	AS 3	85
Spike driver	PSD3	86
System to tow & unload rail	STR	179
Trackpanel laying and removal **system**	S2PV	113
Swithes laying and removal **system**	SPAC	114
T		
Light **tamping** machines	BLH 20	128
Track off-trackable **tamper**	BRAD	131
Track and turnouts modular **tamper**	BRM8 AC	132
Electric **tamping** set	GB4 S	127
Track and turnouts **tamping** unit	MB	129
2-head track and turnouts **tamping** unit	MB8 AC	130
Rail **tensors**	TH 70 & 120 VL	64
Rail **tensor**	THR 542	63
LWRs **threader**	MPR	118
Road-rail **trailer** for LWRs unloading	EMD	178
Workshop **trailers**	RTA	155
Modular transport **trailer**	RTM 6/10	151
Heavy plant transport **trailer**	R25TR	156
Transport **trailers**	RT	152
Tilting **trailers**	RTB	153
LWRs transport **Train**		158
LWRs **transport** mini-wagons	TMW	159
Dismountable **transport** unit for vehicles	UTE 400	157
Rescue **trolley** for damaged bogie	C2D	190
Trolleys	CH	147/192
Multipurpose monorail **trolley**	CMM 476	146
Radiocontrolled self-propelled **trolleys** for transport	LEM 460	110
Lightweight braked **trolley**	LLF 471	148
Self-propelled **trolley**	LLM 401	149
Transport **trolleys**	MA, TR	150
Maintenance and **transport** rail car	VT 438	144
V		
Inspection **vehicle**	VT 4141	145
Lightweight **vehicle** for emergency purposes	MINI 4-4	193
Road-rail **vehicles** range	V2R	165/6/7
Portable self-powered **vibrator**	VBZ	125
Super lightweight portable **vibrator**	VPS	124
W		
Pneumatic **warning** devices	AVS 1-2	188
Very light **warning** devices	AVS 3-4	189
Weed-killing track motorcars	VMT DES	136
Weld shear	ESN3/4	41/42
Portable power **wrench**	MIW 3	72/88

matériel		PAGE
A		
AP 21	Multipurpose clipper	84
AP 3	Compact clipper	83
APL 6	Portable hydraulic clipper	82
ARR 531	Rail track gauge narrowing device	173
AS 3	Spike pullers	85
ATR	Rail pullers	172
AVS 1-2	Pneumatic warning devices	188
AVS 3-4	Very light warning devices	189
B		
BLH 20	Light tamping machines	128
BRAD	Off-trackable tamper	131
BRM8 AC	Track and turnouts modular tamper	132
BRV	Track brush	133
BSR8	High power bolting machine	87
C		
C2D	Rescue trolley for damaged bogies	190
CH	Trolleys	147
CH	Trolley for the emergency services	192
CMM 476	Multipurpose monorail trolley	146
CR	Rail loaders	177
D		
DER 672	Rail descaling machine	56
DK3	High output rail descaling machine	55
DN80	Chamfering machine	97
E		
EMD	Road-rail trailer for LWRs unloading	178
EMX-M	Mechanical grinding set	43
ESN3	Modular weld shear	41
ESN4	Powerfull and lightweight weld shear	42
F		
FRHP	Rail knocker	60
G		
GB4 S	Electric tamping set	127
GE	Lighting generators	185
GH 5 & 5/10	Multipurpose hydraulic power packs	101
GMSL	Multipurpose super light tool set	100
J		
JA	Vertical rail joint benders	67
JB - JC	Horizontal rail benders	65
JL30	Light switch blade bender	69
JLP 75	Light horizontal rail bender	66
JP 90	Rails and switch blade benders	68
K		
KGT-4RS	Road-rail loader/excavators	104
KGT-E	Powerful multipurpose road-rail excavator	105
KGT-P	Powerful road-rail loader/excavators	108
L		
L2R 522	Hydraulic rail lifter	61
LEM 460	radiocontrolled self-propelled trolleys for transport	110
LFT	Sleeper fixing machine	121
LLF 471	Lightweight Braked Trolley	148
LLM 401	Self-propelled trolley	149
LNR 528-529	lightweight track lifting machine	123
LRH	Hydraulic rail lifter	62
M		
MA, TR	Transport trolleys	150
MB	track and turnouts tamping unit	129
MB8 AC	2-head track and turnouts tamping unit	130
MC3	Turnouts grinder	49
MDR	Hydraulic rerailing equipment	191
MEB	"K" bolt removing machine	81
MINI 4	Light multipurpose mototrolleys	143

matériel		PAGE
MINI 4-4	Light set for emergency interventions	193
MIW 3	Portable power wrench	72/88
MJ18	Rail joint grinder	52
MOD12	Corrugation grinder	53
MP 23	Ergonomic rail profile grinder	47
MP12	Rail profile grinder	46
MP5	Light rail profile grinder	45
MP6	Profile grinder for rails & turnouts	48
MPR	LWRs threader	118
MR 512	Rail knocker	60
MRT 2/4 SR	Sleeper changing machine	120
MS9	Rail web and fishing table grinder	51
MTZ	Safe disc cutter	35
MV3	Vertical rail grinder	50
O		
OBF	Front buckets	182
OBP	Clamshell buckets	182
OBR	Hydraulic hammer	139
ODC	Ballast cribs clearing beam	119
ODL	Blade grasscutter	138
OEA	Magnet	140
OFF	Front fork	180

matériel		PAGE
OFT	Sleeper fork	180
OGC	Clearing buckets	139
OGR	Retro buckets	139
OMR	LWR roller clamp	176
OPV	Vertical drill	140
ORD	Hydraulic brushcutter	138
OTC	Ditch cleaning rotor	138
P		
P2R 200E	Road-rail shunting vehicles	168
PAR	Hydraulic rail grab	176
PCB	Floodlights	184
PCD	Standalone portable rechargeable tracksite floodlight	186
PCT	Sleeper beam with chains	181
PEM 807	Radiocontrolled self-propelled substitution gantries	111
PHG 2	Multipurpose portable grinder	44
PMC 8101	Gantries for replacement of S & C units	117
PMR	Aluminium rail changers	175
PR2	Super light weight rail drilling machine with hollow drill bits	36
PR7 S	The reference rail drill	39

matériel		PAGE
PR8	Double feed drills	40
PRUL	Carbide tools rail drill	38
PRV 550	Slab track positioning units	116
PRZ	Super light weight rail drilling machine with carbide bits	37
PSD3	Spike driver	86
PSR	Rail changers	174
PT8	Heavy duty sleeper drill	90
PTH 350-500	Track laying and renewal telescopic gantries	115
PTSL	Light maintenance sleeper drill	93
PTV	Hydraulic beam for sleepers	181
PTXL	Portable sleeper drill	94
PWP	Switches laying and removal gantries	112
R		
R10BAL	Ballast hopper trailer	154
R25TR	Heavy plant transport trailer	156
REEN	2-head ontrack readzing machine	96
RH2	Inspection motortrolley	142
RT	Transport trailers	152
RTA	Workshop trailers	155
RTB	Tilting trailers	153

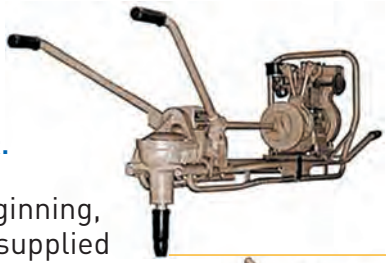
matériel		PAGE
RTM 6	*Modular transport trailers*	151
RV100	*Track slewing machine*	122
S		
S2PV	*Trackpanel laying and removal system*	114
SH	*Rail heaters*	58
SPAC	*Switches laying and removal system*	114
SRH	*Blade rail saws*	34
STR	*System to tow & unload rail*	179
T		
T 2002	*2-head programmable coach-screwing machines*	80
TB	*Combined mechanical coach-screwing and fishbolting machine*	74/89
TC	*Maintenance coach-screwing machine with pneumatic torque assistance*	78/90
TDH 2	*Digital hydraulic coach-screwing machine*	79
TEM	*Mechanical maintenance coach-screwing machine*	75/90
TH 70 & 120 VL	*Rail tensors*	64
THR 542	*Rail tensor*	63

matériel		PAGE
TMI 2	*Portable coach-screwing machine with pneumatic assistance*	76
TMW	*LWRs transport mini-wagons*	159
TPAS	*Heavy duty coach-screwing machine with hydraulic torque assistance*	77/90
LWRs transport **Train**		158
TS	*Heavy duty mechanical coach-screwin92 machine*	73/90
TTB 220	*Sleeper saw*	95
U		
UTE 400	*Dismountable transport unit for vehicles*	157
V		
V2R	*Road-rail vehicles range*	165/6/7
V2R LAI	*Road-rail vehicles for the rescue operations*	194
VBZ	*Portable self-powered vibrator*	125
VMB	*Heavy-duty motorcars with bogies*	164
VMB DEB	*Brush-cutting track motorcars*	137
VMR 445	*Preventative grinding vehicle*	54
VMT 400	*Light track motorcars*	160
VMT 700	*Track maintenance motorcars*	161
VMT 800	*Worksite track motorcars*	162

matériel		PAGE
VMT 900	*Heavy-duty motorcars*	163
VMT CN	*Snow clearing track motorcar*	135
VMT DES	*Weed-killing track motorcars*	136
VMT IOA	*Bridge inspection track motorcar*	134
VO 406	*Continuous feed horizontal rail benders*	70
VPS	*Super lightweight portable vibrator*	124
VT 438	*Maintenance and transport rail car*	144
VT 4141	*Inspection vehicle*	145
VTB 1000	*Shunters with bogies*	170
VTL 200-500	*Shunters with axles*	169
W		
W40N HP	*High pressure cleaning wagon*	57

1924

FOUNDATION OF ÉTABLISSEMENTS LUCIEN GEISMAR IN COLMAR.



From the very beginning, the the company supplied small tools and related track maintenance equipment to the railway industry.

They developed a know-how and a technical capacity for the design and the manufacture of machines to meet the requirements of mechanised track maintenance.

1952

GEISMAR produces its first coach-screwing machine.
This machine will be extensively used to tighten millions of bolts and screws as European Railways embark on an unprecedented reconstruction programme after World War II...

Rail drills and saws followed and marked the start of mechanised track maintenance.

Over 90 years of experience in track works and continuous development have enabled **GEISMAR** to pioneer the machines for the new millennium:

- latest technology in engine drives and optimized ergonomics,
- programming and electronic control with simultaneous recording of parameters,
- minimized maintenance.

A new generation of sleeper coach-screwing machines, the **TDH 2** is lighter, more compact and with accurate digital control, designed to meet the performance demands of the leading railways.

The **VMB** with motorized bogies is the flagship of our railway vehicle range. The **VMB's** flexible design configuration allows enhanced working conditions, productivity, safety and comfort of railway personnel as well as meeting the strictest performance standards of individual railways.

TRACK LAYING AND

VPS

AP3

MP 23

The most comprehensive range, from hand-held machinery

For the maintenance of rails, fastenings and sleepers; track laying and renewal, infrastructure maintenance, transport and handling...

MAINTENANCE EQUIPMENT

RANGE

S2PV

KGT-E

to heavy equipment for trackwork.

VMB 1510 GR Bi-mode

WORLD RAILWAY EXPERIENCE

GEISMAR equipment is used to build and maintain the infrastructure of all railway systems, high speed lines, national and private networks, light rail & metros, urban lines, mines and industrial...

GEISMAR is present in over **130** countries.

guide of use

This catalogue aims at providing our customers with a more comprehensive view of our products, including specific features, advantages and useful links.

A functional analysis of our railway customers' requirements and maintenance tasks has been used as a basis for its structure: we hope you will find numerous products to meet your needs and contribute to the improvement of track maintenance techniques.

SOLUTIONS

The equipment shown in this catalogue meets most of the requirements for track laying and maintenance. The main track components, the associated activities and works are classified in **9 chapters** for ease of identification and quick access to **the GEISMAR solution.** This classification is used in the CONTENTS and repeated on the edge of each page for easy reference.

The description of the equipments and of its functions may refer to optional features; other versions may be proposed or considered to meet specific requirements: our sales team and offices remain at your disposal to answer your queries:
CONTACT US !

1 RAIL
2 FASTENINGS
3 SLEEPERS
4 MULTI-FUNCTION
5 TRACK WORKS
6 TRANSPORT
7 HANDLING
8 LIGHTING
9 SAFETY & RESCUE

SAFETY

We have always been concerned with safety on the track worksites; we endeavour to consider the operators' protection from the early design stages through to the manufacturing process of our machines.

The equipment shown meets **E.U. safety requirements** when applicable.

GEISMAR machines are used worldwide and also meet the relevant local regulations.

The weight of off-trackable machines is also a key factor of safety on work sites.

Pictograms have been used to indicate the off-trackability of the equipment:

	< 15 Kg	**easily carried by 1 person ***
		Handled and off-tracked by:
	< 30 Kg	1 person *
	< 50 Kg	2 persons *
	< 75 Kg	3 persons
	< 100 Kg	4 persons

** used in the contents to easily identify the machines that can be used and off-tracked.*

URBAN

Many **GEISMAR** products can be operated on light rail, metros and other mass-transit systems.

Standard or specific features enable operation in these environments, these features include the compatibility with grooved rails.

This pictogram has been chosen to easily identify such equipment and is included in the contents.

TECHNICAL DEVELOPMENT

GEISMAR research & development is strongly rooted in our field of experience for designing new products or improving existing equipment.

The descriptions and features of the equipment shown may change as a result of the latest technical improvements.

The unique features and design of our equipment are patented to ensure **GEISMAR's** proven knowhow remains our customers' best guarantee for highest quality and suitability.

SPARE PARTS AND CONSUMABLES

GEISMAR is an original equipment manufacturer with first class industrial facilities in France and abroad.

Our substantial stock of original spare parts and high quality consumables ensure we can optimise the operation and maintenance of our equipment worldwide.

GEISMAR
HONDA

1 RAIL

- **CUTTING:** Blade saws - Disc cutters
- **DRILLING:** drills
- **WELD SHEARING:** Weld shears
- **GRINDING:** *Grinding* sets
  Off-trackable grinders
  Grinding vehicles
- **CLEANING:** Descaling *machines - Hi pressure* wagons
- **HEATING :** Heaters - Preheaters
- **DESTRESSING:** Knockers
  Lifters
  Tensors
- **BENDING:** Benders

SRH

Blade rail-saws

Weight

Power source
- petrol
- electric
- hydraulic
- pneumatic

A variety of consumables, tools and accessories are available on request.

- **low noise** operation
- the saw guide features 2 rigid columns for **square and precise cutting**
- **very sturdy design**
- centrifugal clutch
- the cutting bow can be adjusted laterally
- the blade pressure can be controlled hydraulically to enable cutting of high resistance rails
- the bow can accommodate blades up **to 450 mm long** (for grooved rails)
- **quick-acting fastening vice**

MTZ

Light-weight abrasive rail-saw

Weight
less than 17 kg

Power source
• petrol-2-stroke

A variety of consumables, tools and accessories are available on request.

Associated products

The ESN weld shears (pages 41-42) and the MP12 - MP23 grinders (pages 46-47) ensure a perfect finish of the thermit welds.

Using the latest technology, the **MTZ** offers:

- **exceptional cutting performance:**
  - average cutting time: 75 to 90 seconds*;
  - Accuracy - less than 1% horizontal and vertical deviation
- **unmatched comfort for the operator:**
  - reduces intense vibrations with a ***patented Comfort Cushion™*** system
  - reduced noise level
- **important productivity benefits**:
  - extended disc life (up to 20% extra);
  - half the maintenance required with ***patented air filtration*** fitted with cyclone pre-filtration system
- The Stihl 2-stroke engine features diaphragm carburetor, electronic ignition and centrifugal clutch
- 350 to 400 mm Ø discs

*according to rail type (source SNCF)

MTZ

• power source options
• electric
• hydraulic
= model **MTX**

PR2

Super light-weight rail drilling machine with hollow drill bits

Weight
≈ 19 kg

Power source
• petrol 4-stroke Honda engine

A variety of consumables, tools and accessories are available on request.

- designed for fast and accurate drilling all **types of flat bottom or grooved rails** up to a hardness of 270 HB *(for a hardness of rail top, please contact us in advance)*
- drilling the **connection holes** with helicoids drills bits up to a hardness of 270 HB *(for a hardness of rail top, please contact us in advance)*
- **hollow drill bits :**
  - drilling time decrease
  - excellent surface finish
  - decreasing drill chips
- up to 85 mm drilling stroke *(the highest in the market)*
- drilling diameter: up to 40 mm
- manual advance system through **capstan arm,** pressurized **lubricating and cooling system** through the spindle
- **the universal vice** *(multi holes position for all kind of flat bottom or grooved rails)* **with fast lever catch** and the **interchangeable rail forms** ensure accurate fixing and sturdy clamping

PRZ

Super light-weight rail drilling machine with carbide bits with disposable carbide tips

Weight ≈20 kg

Power source • petrol 2-stroke Stihl engine

A variety of consumables, tools and accessories are available on request.

- designed for fast and accurate drilling all **types of flat bottom or grooved rails** up to a hardness of 325 HB *(for a hardness of rail top, please contact us in advance)*
- drilling the **connection holes** with helicoids drills bits up to a hardness of 270 HB *(for a hardness of rail top, please contact us in advance)*
- **Carbide bits holder with disposable carbide plates :**
  - drilling time decrease
  - excellent surface finish
  - no necessary resharpening
  - lifetime increase with more than 100 holes per set of carbide tips *(4 faces - variable number of holes in rail hardness)*
- up to 85 mm drilling stroke *(the highest in the market)*
- drilling diameter: up to 40 mm
- manual advance system through **capstan arm,** pressurized **lubricating and cooling system** through the spindle
- **the universal vice** *(multi holes position for all kind of flat bottom or grooved rails)* **with fast lever catch** and the **interchangeable rail forms** ensure accurate fixing and sturdy clamping

PRUL

Carbide tool rail drill

Weight

Power source • petrol • electric

A variety of consumables, tools and accessories are available on request.

- **carbide technology**
- **light, yet sturdy** and economical
- **fast and accurate:** drills Ø 36 mm in UIC 60 rail in 40 seconds
- manual advance, pressurized, coaxial tool lubrication
- interchangeable **rail forms and quick-acting clamp** ensure accurate and firm fixing
- **simple and economical:** the easily changeable carbide tips can be used on all 4 faces which enables the drilling of **up to 100 holes**

PR7 S

Manual feed rail drill

Weight

Power source
- petrol
- electric
- hydraulic
- pneumatic

A variety of consumables, tools and accessories are available on request.

- **manual feed**
- **drills up to 38 mm Ø** with morse cone n° 3 (CM4 and flat drill bits are also available)
- **1 or 2-speed transmission**
- large choice of drill bit rotation speeds
- **standard or flat drill bits** can be used
- **compact quick fastening clamp**
- drill bit lubrication

PR8

Double feed rail drills

Weight

Power source
- petrol
- electric
- pneumatic

A variety of consumables, tools and accessories are available on request.

- **PR8 : automatic feed**
  PR8 DUAL : automatic/manual feeds
- **drills up to 38 mm Ø** with morse cone n° 3 (CM4 and flat drill bits are also available)
- **1 or 2-speed transmission**
- large choice of drill bit rotation speeds
- **standard or flat drill bits** can be used
- **quick fastening clamp compact vice**
- drill bit lubrication

ESN3

Modular weld shear

Weight

Associated products

The MTZ disc cutters (page 35) are used to prepare the thermit welding process; the MP12 - MP23 grinders (pages 46-47) ensure a perfect finish of the thermit welds.

A variety of consumables, tools and accessories are available on request.

- **powerful:** shearing force **up to 220 kN** is evenly distributed
- **precision:** cutters and guides are adjustable to optimise shearing
- **profitable: final grinding** is minimal to reduce costs
- shears both the weld and the mould in one continuous operation
- **4 modular configurations:**
  - **HI:** manual pump mounted on the weld shear
  - **HS:** shearing unit + separate manual pump
  - **MI:** integrated electric or petrol powered pump
  - **MS:** shearing unit + independent powerpack (**MS-XL :** model for the grooved rail)

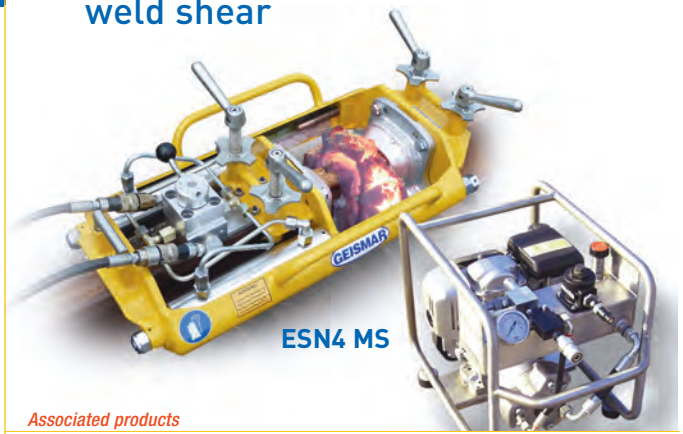
ESN4

Powerful and lightweight weld shear

Weight
37 kg without cutters

Énergie
• petrol 4-stroke Honda engine

A variety of consumables, tools and accessories are available on request.



- **powerful:** shearing force up to **216 kN** is evenly distributed
- **precision:** cutters fixed and guides adjustable to optimize shearing
- **economical:**
  - **lifetime** of the cutters - up to 3x
  - **final grinding** is minimal to reduce costs
- **compact:** versatile use in track and switches and crossings
- shears both the weld and the mould in one continuous operation
- configuration **MS**: shearing unit + independent powerpack

Associated products

The MTZ disc cutters (page 35) are used to prepare the thermit welding process; the MP12 - MP23 grinders (pages 46-47) ensure a perfect finish of the thermit welds.

EMX-M

Mechanical grinding set

Weight

Power source • petrol • diesel

A variety of consumables, tools and accessories are available on request.

- **mounted on a wheel barrow** with tyres or rail rollers with outrigger
- pivoting power unit and centrifugal clutch
- 4m long flexible shaft
- **straight or right angle tool holders** with handles and guards and **integrated clutch control**
- up to **8 types of grindstones for all applications** can be used: flat, cup type, recessed, depressed etc…

PHG 2

Multipurpose portable grinding machine

Weight
9 kg

Power source
• petrol 2 or 4-stroke

A variety of consumables, tools and accessories are available on request.

Self contained versatility and ease of use make **PHG 2** the handiest of tools for a variety of maintenance tasks from a single source.

Multipurpose:

- **a variety of possibilities:**
  - **Grinding** of running surface, lateral sides of rail, fish plate area, rail ends, switch points and frogs
  - **Cutting** of coachscrews and fishplate nuts
  - **Weld shearing**- removal of risers
  - **Working** in **flat bottom and grooved rails**
- **easy and quick to use:**
  - Integrated petrol engine
  - Perfectly balanced
  - 2 ergonomic handles incorporating centralised controls
- **maximum safety for the operator**
- Ø 230 mm grindstones, from 2.5 to 7 mm thick

MP5

Lightweight rail profile grinder

Weight

Power source
- petrol 2-4-stroke
- electric
- hydraulic

A variety of consumables, tools and accessories are available on request.

- ensures perfect grinding of the rail head
- **the guiding rollers are adjustable** to best suit the working area
- **light, yet rigid steel frame**
- the **grindstone** is accurately controlled, perfectly **in the plane of the rail** (various dimensions and fastening are available)
- **safe operation:** elastic transmission and protective casings are standard features

MP12

Rail profile grinder

Weight

Power source
- petrol 2-4-stroke
- electric
- hydraulic

A variety of consumables, tools and accessories are available on request.

MP12

- ensures **perfect grinding of the rail head**
- the guiding rollers guarantee a **fine grinding from horizontal to vertical** position
- the **long roller base** ensures a first class reference for the grinding
- the grindstone is precisely controlled (various dimensions and fastening are available)
- light, yet **rigid alloy frame**
- **safe operation:** belt drive and protective casings are standard features
- **ergonomical:** the grinder can be **locked at any angle** with an outrigger
- options: - **power take-off** for flexible drive hand tools
  - transformation **kit** in the **MOD 12**

Associated products

The MTZ disc cutters (page 35) and the ESN weld shears (pages 41-42) are also used in the thermit welding process.

MP23

Ergonomic rail profile grinder

Weight

Power source
- petrol
- diesel
- electric
- hydraulic

A variety of consumables, tools and accessories are available on request.

- Grinds **the whole profile of the head of flat bottom rails in only one operation**
- outstanding rigidity of the aluminum alloy frame
- **Ergonomic, sure and comfortable machine to use**
- **2 adjustments of the grinding head:**
  - **vertically** (ellecttrically controled) for a progressive grinding of the rail
  - the **180° arc** allows continuous grinding without turning the **MP23** around
- **Off-set balancing bar** prevents the **MP23** resting on weld burrs on the opposite rail

Associated products

The MTZ disc cutters (page 35) and the ESN weld shears (pages 41-42) are also used in the thermit welding process.

MP6

Profile grinder for rails & turnouts

Weight

Power source
- petrol 2-4-stroke
- electric
- hydraulic

A variety of consumables, tools and accessories are available on request.

- fine grinding of the **rail head on main line**
- **pivoting and adjustable universal guiding rollers,** to best suit the working area
- the grindstone features controlled adjustment (various dimensions and fastening are available)
- **light yet rigid steel frame**
- **safe operation:** centrifugal clutch and protective casings are standard features
- **MP6 SG :** grinding of switch points and frogs

MC3

Turnouts grinder

Weight

Power source
- petrol
- electric
- hydraulic

A variety of consumables, tools and accessories are available on request.

- the **sturdy frame** is insulated and features a **grinding head with 3-way adjustment**
- fine grinding of the **blades, crossing and check rails in all types of turnouts**
- the grindstone can be adjusted over a **± 30° angle range** (various dimensions and fastening are available)
- vertical adjustment ranges over 185 mm
- lateral adjustment ranges over 385 mm
- **ergonomic precise and sturdy controls**
- option: power take-off for tool holders

MV3

Vertical rail grinder

Weight

Power source
- petrol
- diesel
- electric
- hydraulic

A variety of consumables, tools and accessories are available on request.

- deburring and grinding all flat bottom rails and check rails in any type of crossings and switches
- **tool holder assembly with 3-way adjustment:**
  - ≈ 385 mm horizontal stroke
  - ≈ 200 mm vertical adjustment
  - **the angle can be adjusted over ± 30°**
- adaptable optional for fish-plated recessed stone and abrasive wheels
- frame with rail rollers
- optional inclination -20°/+80°

MS9

Weight

Power source
- petrol
- diesel
- electric

A variety of consumables, tools and accessories are available on request.

Rail web and fishing table grinder

- special design to **remove rust and scale**
- **the height and angle are adjustable** to suit the rail profile
- the shell-type grindstone protections pivot to suit either rail side
- **fine grinding of the web includes the transition onto rail foot and under rail head**
- 4-wheel traversing trolley, optional motorised trolley

MJ18

Rail joint grinder

Weight

Power source • petrol

A variety of consumables, tools and accessories are available on request.

- the frame features a **quick-acting vice, and roller** to move on the rail
- up to **70 mm grinding depth**, easily controlled through a **spring loaded pivoting arm**
- the grinding head is laterally positioned against the joint through a precise capstan wheel
- belt transmission
- Ø 230 mm grindstone, 3.2 or 4.8 mm thick

Associated products

Can be used when low joints have been straightened using JA vertical benders (page 67).

MOD12

Corrugation grinder

Weight

Power source
- petrol
- electric
- hydraulic

A variety of consumables, tools and accessories are available on request.

- fine grinding of the rail head and undulatory corrugation
- **two extensions sets of 16-roller provide a perfect platform for precise grinding out of corrugation**
- the grindstone features precise control (various dimensions and fastening are available)
- **light yet rigid alloy frame**
- **safe operation:** belt drive and protective casings are standard features
- **ergonomical:** the grinder **can be locked at any angle** when used with the outrigger
- optional power take-off available for flexible drive hand tools

VMR 445

Preventative grinding vehicle

Weight
15 t

VMR 445

A variety of consumables, tools and accessories are available on request.

- power **164 kW** - water cooling
- hydrostatic transmission
- **80 km/h** speed on level track
- **2 hydraulic grinding units with 4 vertical stones** Ø 150 mm to **work on both rails up to 5 kmph**
- **the grinding heads can be tilted/inclined over 115°** to grind corrugation and gauge corner
- **up to 150 m per hour** (0.2 mm depth)
- features dust and particle extraction system
- catalytic converter can be supplied
- creep speed and **remote controled** grinding heads
- **V2R 850 M** : road-rail version available

DK3

High output rail descaling machine

Weight

Power source: • petrol • diesel • electric

A variety of consumables, tools and accessories are available on request.

- **high efficiency to re-establish track circuits** even on new, oxidized or wet rails
- 2 high output **abrasive wheel** Ø 230 x 25.4 x 25.4 mm
- features a **pneumatic control of the wheel pressure**
- 2 selectable wheel pressures
- guiding through 2 double-flange rollers
- **rail is cleaned over a 40 mm width**
- options: - 3 abrasive wheels
  - wire brushes

DER 672

Rail descaling machine

Weight

Power source • petrol • electric

A variety of consumables, tools and accessories are available on request.

- **light and easy-to-use** machine for re-establishing track circuits
- **abrasive strips wheel** Ø 165 x 50 mm
- direct on-the-rail contact system
- **rail is cleaned over a 40 mm width**

W40N HP

High pressure cleaning wagon

A variety of consumables, tools and accessories are available on request.

- **Wagon mounted** high pressure water jetting unit to clean the rail-head and restore rail adhesion
- Operating speed: up to **60 kmph**
- 310 HP pumpset delivers **130 l/min at 1,000 bar**
- **4 adjustable nozzles,** set at 1,000 bar, clean rails
- A separately mounted 250 bar spray-bar is available for **cleaning 3.3 m of track**
- **2 hand-held** lances provide 250 bar pressure for spot cleaning
- **6 m³ intermediate tank** installed with the pumpset enables station and platform cleaning, equivalent of 45 km of track
- **7 hours of continuous operation** possible when used in conjunction with a 50 m³ water tanker, up to 420 km of track

SH

Rail heaters

Weight
SH 4 : *90 kg*
SH 8 : *210 kg*
SH 12 : *600 kg*

A variety of consumables, tools and accessories are available on request.

SH

- *heating power:*
  SH 4 = *255 kW*
  SH 8 = *510 kW*
  SH 12 = *765 kW*
- *consumption:*
  SH 4 = *20 kg/h*
  SH 8 = *40 kg/h*
  SH 12 = *60 kg/h*

- off-trackable trolleys **for rail destressing and welding LWRs**
- burners fed from **liquid propane gas** bottles
- 3 models:
  - **SH 4:** 4 burners **for 1 rail;**
  - **SH 8:** 8 burners **for the 2 rails,** hand pushed;
  - **SH 12: 8 lateral burners + 4 vertical** burners **for the 2 rails;** mounted on a **self-propelled** aluminium trolley with brakes

Associated products

The TH hydraulic tensors (page 64) can also be used for LWRs destressing.

MR 512
FRHP

MR 512

Rail knocker

Weight 230 kg

Power source • petrol

- hand-pushed **frame with 4 rollers**
- **oscillating arms** positioned above each rail are **fitted with nylon pads** for knocking both sides of each rail head to allow destressing
- **48 blows/min**

FRHP

Heavy duty rail knocker

Weight 285 kg

Power source • petrol

- hand-pushed **frame with 8 rollers**
- **oscillating arms** positioned above each rail are **fitted with nylon pads** for knocking both sides of each rail head to allow destressing
- **56 blows/min**

L2R 522

Hydraulic rail lifter

Weight
170 kg

Power source
• petrol

A variety of consumables, tools and accessories are available on request.

- hand-pushed **frame with 4 rollers**
- **2 hydraulic cylinders with 300 mm of stroke** enable one or two rails to be lifted
- hydraulic rail clamps
- lever type distributor controls
- **5.5 t lifting capacity**
- features **2 storage baskets** for destressing rollers
- **a dismountable version is also available**
- also available as a radio controlled self-propelled unit for use in conjunction with tamping **(L2R 525)**

LRH

Hydraulic rail lifter

Weight
250 kg

Power source
• petrol

A variety of consumables, tools and accessories are available on request.

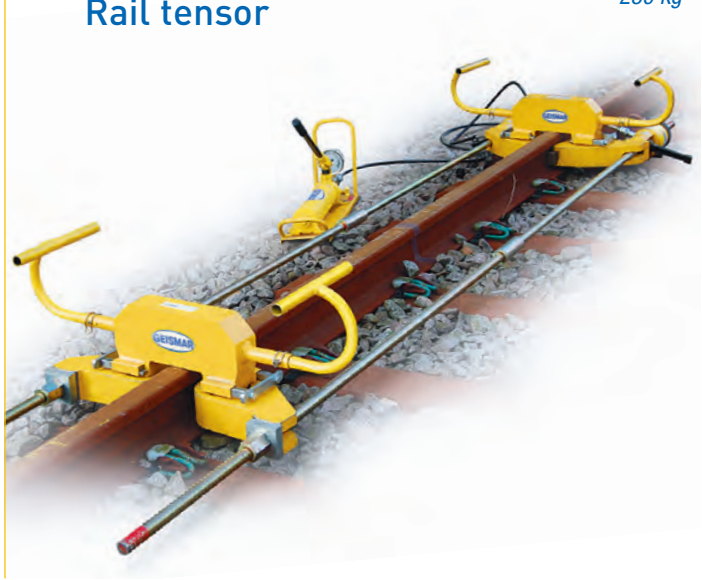
- hand-pushed **frame with 4 rollers**
- **2 hydraulic cylinders with 350 mm of stroke** enable one or two rails to be lifted
- the **rail clamps can be locked 'up'** so as to avoid low obstacles
- features no return safety valves
- lever type distributor controls
- **3 t lifting capacity**
- **off-tracking kit** with ramps and wheels

THR 542

Rail tensor

Weight
280 kg

A variety of consumables, tools and accessories are available on request.

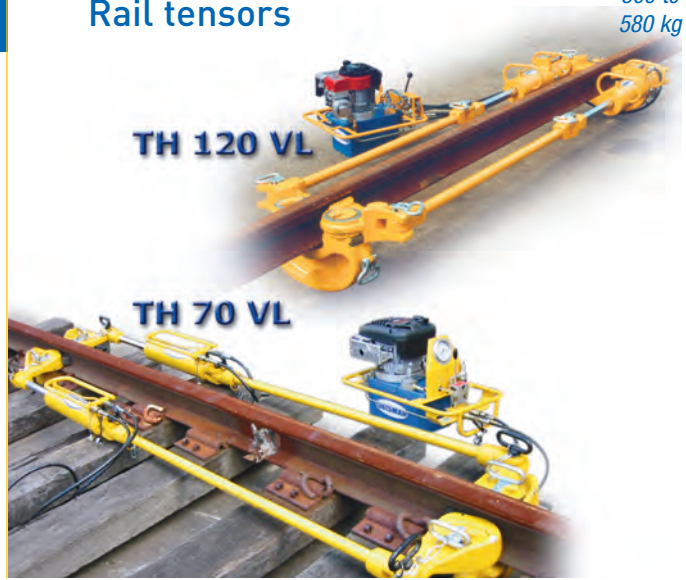


- **multipurpose tensor** for destressing LWRs, compensating rail gap, installing insulated joints
- **600 kN of capacity** enable pulling **LWRs of up to 70 kg/m**
- **64 mm stroke with manual take up** system for pulling larger gaps
- eccentric **obstructionless** clamps for use under traffic
- 700 bar manual pump with manometer and pressure regulation
- **dismountable to be carried by hand**

TH 70 & 120

Rail tensors

Weight
300 to 580 kg



TH 70
TH 120

A variety of consumables, tools and accessories are available on request.

- **700 or 1090 kN** to pull up to 70 kg/m LWRs
- 380 mm stroke allows **LWRs up to 1,200 m** long to be pulled in order to establish the relevant stress free temperature
- **obstructionless model** with eccentric clamps
- the 40 cm to 300 cm pulling rods can be combined for installing closure rails
- manual or motorized pump with pressure gauge and pressure regulation
- **dismountable to be carried by hand**

JB - JC

Horizontal rail benders

A variety of consumables, tools and accessories are available on request.

- maximum force: **400 or 600 kN**
- double flow manual pump
- the 2 rams feature 110 mm stroke to **bend rails down to 6 m radius**
- 2 models - mecanowelded frame with pushing and reaction blocks **for rails up to 70 kg/m:**
  - **JB 40:** for rails **up to 50 kg/m,**
  - **JB 60:** for rails **up to 70 kg/m,**
- 1 model - swanneck frame enables the **bending of elbow fishplated joints** and rails:
  - **JC 60:** for rails **up to 70 kg/m,**
    the 2 rams feature 60 mm stroke

JLP 75

Lightweight multipurpose rail bender

Weight
45 kg
+ accessories
25 kg

- **light and easy operation to rectify or accentuate curve** on flat bottom rails & switch blades
- Mechanically welded frame and hooks made in high strength aluminium
- Double acting ram
- Maximum force: **750 kN**
- Double flow manual pump

A variety of consumables, tools and accessories are available on request.

JA

Vertical rail joint benders

A variety of consumables, tools and accessories are available on request.

- mecanowelded frame with reaction blocks and retractable rail rollers
- vertical ram with rail base clamp **for straightening both welded and fishplated joints**
- double flow manual pump
- maximum force: **400 or 1,000 kN**
- gauge-controlled stroke
- 2 models:
  - **JA 40:** for rails **up to 46 kg/m,**
  - **JA 100:** for rails **up to 60 kg/m,**
- supplied with outrigger

JP 90

Rails and switch blade bender

Weight
290 kg

A variety of consumables, tools and accessories are available on request.

- vertical **straightening of Vignole or grooved rails and switch blades** by using interchangeable pushing blocks
- horizontal straightening of rails and switch blades through tilting of the machine
- high resistance cast steel construction
- double acting hydraulic ram
- maximum force: **900 kN**
- 90 mm stroke, **hand pump**
- **optional transportation trolley** with rail rollers available

JL30

Light switch blade bender

Weight
45 kg
+ accessories
19 kg

A variety of consumables, tools and accessories are available on request.

- **light and easy operation** for bending switch blades in situ whilst disconnected from operating mechanism
- suits S49, S54 and UIC60 rail profiles
- **2 wedges and 1 rod are used with the bender to adjust the blade radius**
- manual hydraulic pump: 700 bar
- **300 kN** of bending force

VO 406

Continuous feed horizontal rail bender

Weight 3.6 t

Power source: • petrol • diesel • electric

A variety of consumables, tools and accessories are available on request.

Workshop based machine **for the pre-bending of rail prior to installation in track**

- **6 interchangeable rollers enable one or two-way bending** of Vignole or grooved rails in various configurations
- **400 kN** of bending force
- **minimum bending radius: 5 m**
- the rail is driven by motorized rollers up to 9.3 m/min
- **stationary or rolling frame** (over ground or rail)
- excellent visibility of working area

2 FASTENINGS

RAIL-SLEEPER:

THREAD TYPE, tightening -untightening:
Portable power wrench
Mechanical coach-screwing machines
Mechanical coach-screwing machines *with torque assistance*
Hydraulic coach-screwing machines
Programmable coach-screwing machines
"K" bolt **removing machine**

CLIPS: **Clippers**

SPIKES: **Extracting -** *Self contained spike puller*
Inserting - *Self contained spike driver*

FISHPLATE: • fastening & unfastening: **Bolting machine**

MIW 3

Portable power wrench

Weight

Power source
- 2-stroke petrol
- electric
- hydraulic

A variety of consumables, tools and accessories are available on request.

- **the most powerful machine** available on the market for spot maintenance on vertical and horizontal fastenings
- the Stihl 2-stroke engine features diaphragm carburetor, electronic ignition and centrifugal clutch
- **torque available up to 2,600 N.m**
- ergonomic control for fastening/unfastening operations
- torque adjustment control available on option
- excellent oil bath lubrication with magnetic filter reducing heat and noise
- standard square inch drive
- 3 handles for **better working conditions**
- **MIW 3** can be mounted on dedicated 3-wheel foldable trolley to facilitate work on horizontal or vertical positions

Associated products

The TMI 2 (page 76) offers optimum weight/performance ratio for more demanding tightening work

TS

Heavy duty mechanical coach-screwing machine

Weight

Power source
- petrol
- diesel
- electric

A variety of consumables, tools and accessories are available on request.

- **sturdy construction** for intensive use
- mechanical **transmission in oil-bath** with reverse and conical clutch
- 1 or 2-speed gearbox
- **adjustable tightening torque** and full unfastening power over 120 daN.m
- options: torque display through **graduated dial,** lighting for night-works and fish-bolting device
- 4-wheel traversing trolley, optional patented negative brake trolley

TB

Combined mechanical coach-screwing and fish-bolting machine

Weight

Power source: • petrol • diesel • electric

A variety of consumables, tools and accessories are available on request.

- **sturdy construction** for intensive use
- **pivoting head** with 1 outlet **for vertical fastenings** and 2 outlets **for fishbolts**
- mechanical **transmission in oil-bath** with reverse and conical clutch
- 1 or 2-speed gearbox
- **adjustable tightening torque** and full unfastening power over 120 daN.m
- options: torque display through **graduated dial,** lighting for night-works
- 4-wheel traversing trolley, optional patented negative brake trolley

TEM

Maintenance mechanical coach-screwing machine

Weight

Power source
- pettrol
- diesel
- electric

A variety of consumables, tools and accessories are available on request.

- combines **performance and low weight**
- mechanical **transmission in oil-bath** with reverse and conical clutch
- 1 or 2-speed gearbox
- **adjustable tightening torque** and full unfastening power over 90 daN.m
- torque graduated dial is available
- options: lighting for night-works and fish-bolting device
- trolley with outrigger or traversing mechanism, optional patented negative brake trolley

TMI 2

Mini coach-screwing machine

Weight

Power source
- petrol
- diesel
- electric
- hydraulic

A variety of consumables, tools and accessories are available on request.

- **truly portable with full size features**
- **exclusive mono-rail trolley** ensures perfect stability
- mechanical **transmission in oil-bath** with reverse and conical clutch
- 2-speed gearbox
- **adjustable tightening torque** up to 80 daN.m unfastening power
- torque display through control **graduated dial**
- optional lighting for night-works

TPAS

Precise coach-screwing machine with hydraulic torque assistance

Weight

Power source
- petrol
- diesel
- electric

A variety of consumables, tools and accessories are available on request.

- mechanical transmission
- **precise torque control** with reliable hydraulic assistance
- double oil-bath conical clutch
- 1 or 2-speed gearbox with reverse
- **adjustable torque from 10 to 60 daN.m** and up to 100 daN.m for unfastening
- **graduated dial** for monitoring the tightening torque
- options: lighting for night-works and fish-bolting device
- trolley with outrigger or traversing mechanism, optional patented negative brake trolley

TC

Compact coach-screwing machine

Weight

Power source: • petrol • diesel • electric

A variety of consumables, tools and accessories are available on request.

- mechanical transmission
- precise **torque control**
- **ergonomical:** engine, reverse and speed change are controlled from the handles, 2 dedicated torque dials for selective reading
- progressive clutch control
- 2-speed gearbox
- **adjustable torque: 10 to 60 daN.m** and up to 100 daN.m for unfastening
- options: lighting for night-works and fish-bolting device
- trolley with outrigger or traversing mechanism, optional patented negative brake trolley

TDH 2

Digital ergonomic hydraulic coach-screwing machine

Weight
≈110 kg

• petrol
Power source

A variety of consumables, tools and accessories are available on request.

USB Bluetooth GPS

- **high precision, fully hydraulic, high output and compact coach-screwing machine**
- **precision torque control** with digital display
- **ergonomical:** engine control, inverter and speed change are integrated on control handles
- engine and hydraulic equipment are mounted on silent block: reduction of vibration level for operator
- 16 to 55 daNm screwing torque adjustment
- 110 daN.m maximum unscrewing torque
- **fully automatic speed selection** for fast or precision tightening
- **up to 500 fastenings per hour**
- LED lighting for night-works;
- recording of data with GPS positioning
- foldable carrying arms and integrated handle for easy transportation and stocking
- Options: - **DTC**: digital torque control accessory connected by Bluetooth
  - 4-wheel trolley

2 RAIL SLEEPER

THREAD TYPE

programmable coach-screwing machine

T 2002

T 2002

2-head programmable coach-screwing machine

Weight
225 kg

Power source
- *petrol*
- *diesel*
- *electric*

A variety of consumables, tools and accessories are available on request.

- **hydraulic transmission with cooler**
- **head adjustment** device (spacing and angle)
- **high precision from 5 to 55 daN.m**
- over 100 daN.m unfastening torque
- **advanced electronic control with digital display:** torques are precisely programmed, process is monitored with fault alarm, speed shift is automatic
- **recording** of fastening torques **for PC analysis** is also available
- **up to 1,000 fastening cycles per hour**
- 4 wheel traversing trolley with rubber wheels and **off-tracking device,**
  options: - patented negative brake trolley
  - motorised trolley

MEB

“K” bolt removing machine

Weight

Power source
- petrol
- diesel
- electric

A variety of consumables, tools and accessories are available on request.

- hydraulic machine **to extract simultaneously 2 T-headed bolts**
- head with **double extracting tool**
- capacity: **60 kN**
- the tools feature adjustable spacing and stroke
- 4-wheel traversing trolley

APL 6

Weight

A variety of consumables, tools and accessories are available on request.

Portable hydraulic clipper for insertion and extraction of Fastclips

- Tool for manual insertion or extraction of Fastclips on most of the flat bottom rails in plain tracks
- **lightweight** and easily **transportable**
- for the safety of operator, **patented swiveling head** makes it possible to work and to stay inside the track

AP 3

Compact clipper

Weight

Power source • petrol

A variety of consumables, tools and accessories are available on request.

- **Fully hydraulic compact machine.** High output design with integrated head for inserting or extracting Pandrol Fast Clips
- **ergonomical controls** integrated on the handles of the machine
- **dual purpose tools** fitted (no change over needed) for inserting or extracting 2 clips simultaneously
- robust design, fast, easy to operate and maintain: the ideal machine for high output site renewals
- **high output:** - insertion ≈ 1,200 clips/hour
  - extraction ≈ 1,100 clips/hour
- powerful: **up to 30 kN force** available
- 4-wheel traversing trolley
- foldable carrying arms and integrated handle for easy transportation and stocking
- option: sleeper's lifting

AP 21

Heavy duty multipurpose clipper

Weight

Power source: • petrol • diesel • electric

A variety of consumables, tools and accessories are available on request.

- **3 models with up to 9 heads suit most clips:** E, PR, Fastclip, Safelock, Surelock, SB3, rail anchors, etc.
- **AP 21: the easily interchangeable working heads** with electrical and hydraulic fast connections
- the tools develop coaxial action **to insert or extract 1 or 2 clips simultaneously**
- **ergonomic and easy to use**; work cycles feature **electrical control**
- high output: **from 900 to 1,600 clips per hour** depending on the clip and working head
- powerful: **up to 29 kN force** available
- 4-wheel traversing trolley
- option: sleeper's lifting

AS 3

Spike puller

Weight

Power source
- petrol
- diesel
- electric

A variety of consumables, tools and accessories are available on request.

- **up to 60 kN capacity** to extract spikes, lockspikes and dogspikes from the hardest of wooden sleepers
- **for symetric spikes**
- operates on either rail side
- features **articulated head and pivoting support** for optimum stability
- 4-wheel traversing trolley, optional motorised traversing device

Associated products

Spikes can also be removed with the hydraulic attachment SP3-GH5/10 (page 103)

PSD3

Spike driver

Weight

Power source • petrol • diesel

A variety of consumables, tools and accessories are available on request.

- **high output** hydraulic machine
- 5 seconds are enough to drive spikes into the hardest woods
- **up to 600 spikes/hour**
- high performance driving head: impact power: **120 J/blow - 950 blows/min**
- 4-wheel traversing trolley
- **separates into 3 components for easy transport and off-tracking**: frame & engine, driving head and trolley

Associated products

Spikes can also be inserted with the hydraulic attachment SD1-GH5/10 (page 103)

BSR8

High power bolting machine

Weight

Power source • petrol

A variety of consumables, tools and accessories are available on request.

- **tremendous power** enables untightening of the most severely jammed bolts, or just break them out ...
- **up to 300 daN.m** torque available
- 2-speed gearbox: **70 and 200 rpm** socket speeds
- **adjustable tightening torque** with graduated **display dial**
- 4-wheel traversing trolley

MIW 3

Portable power wrench

Weight

Power source
- 2-stroke petrol
- electric
- hydraulic

A variety of consumables, tools and accessories are available on request.

- **the most powerful machine** available on the market for spot maintenance on vertical and horizontal fastenings
- the Stihl 2-stroke engine features diaphragm carburetor, electronic ignition and centrifugal clutch
- **torque available up to 2,600 N.m**
- ergonomic control for fastening/unfastening operations
- torque adjustment control available on option
- excellent oil bath lubrication with magnetic filter reducing heat and noise
- standard square inch drive
- 3 handles for **better working conditions**
- **MIW 3** can be mounted on dedicated 3-wheel foldable trolley to facilitate work on horizontal or vertical positions

TB

Weight

Power source
- petrol
- diesel
- électric

A variety of consumables, tools and accessories are available on request.

Combined mechanical coach-screwing and fish-bolting machine

- **sturdy construction** for intensive use
- **pivoting head** with 1 outlet for vertical fastenings and **2 outlets for fishbolts**
- **mechanical transmission in oilbath** with inverser and conical clutch
- 1 or 2-speed gearbox:
  socket speeds from 70 to 255 rpm
- **adjustable tightening torque** and full unfastening power over 120 daN.m
- Options: torque display through **graduated dial,**
  lighting for night-works
  and fish-bolting device
- 4-wheel traversing trolley,
  optional patented negative brake trolley

TS

Masse

Heavy duty mechanical coach-screwing machine

- with optional fish-bolting device *(page 73)*

TPAS

Masse

Precise coach-screwing machine with hydraulic torque assistance

- with optional fish-bolting device *(page 77)*

TC

Masse

Compact coach-screwing machine

- with optional fish-bolting device *(page 78)*

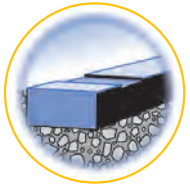
TEM

Masse

Maintenance mechanical coach-screwing machine

- with optional fish-bolting device *(page 75)*

3 SLEEPERS



DRILLING OF WOODEN SLEEPERS

Drill

CUTTING OF WOODEN SLEEPERS

Sleeper saw attachment *for excavator*
Re-adzing machine
Chamfering machine

MAINTENANCE OF CONCRETE SLEEPERS

Combined drill *& coachscrewing machine*

PT8

Heavy duty sleeper drill

Weight

Power source
- petrol
- diesel
- electric
- pneumatic

A variety of consumables, tools and accessories are available on request.

- **sturdy and powerful** for heavy duty use
- **drills up to Ø 33 mm** in the hardest woods; **drills vertically or at rail cant angle** (1/20 or 1/40)
- up to 200 mm **adjustable drilling depth**
- drilling guide provides **precision and protection**
- 4-wheel traversing trolley
- options: extra head for **conical drilling**
  inclination device ± 20°

PTSL

Maintenance light sleeper drills

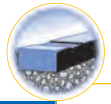
Weight

Power source
- petrol
- diesel
- electric
- pneumatic

A variety of consumables, tools and accessories are available on request.

- **optimum weight / performance** ratio
- **drills up to Ø 33 mm;** drills **vertically or at the rail cant angle** (1/20 or 1/40)

  PTSL-2T : extra head for conical drilling
- drilling guide provides **precision and protection**
- up to 200 mm **adjustable drilling depth**
- trolley with outrigger or traversing mechanism



PTXL

Portable sleeper drill

Weight
14 kg

Power Source
- 2-stroke petrol
- electric
- hydraulic

A variety of consumables, tools and accessories are available on request.

- **easy to use, efficient operation and safe**
- **drills up to Ø 25 mm,** drilling **depth is adjustable up to 200 mm**
- **pneumatic assistance** and drilling guide ensure easy and accurate drilling
- **portable and ergonomical**
- **safety features:**
  - instant release and protection of the drill bit,
  - automatic petrol engine rotation stop, in the event of drill bit locking
- optional carrier-trolley
- version "**S**" (simplified) is available

TTB 220

Sleeper saw

Weight
1,000 kg

• hydraulic
Power Source

A variety of consumables, tools and accessories are available on request.

A dedicated railway attachment for KGTs *(pages 106-107)* *for cutting the ends of wooden sleepers;*

can also be fitted to other road/rail excavator types subject to specification

- **up to 150 sleepers per hour**
- the trolley frame is towed by the loader and features **2 mobile cutting heads**
- 2 blades of 600 mm diameter **with carbide inserts**
- the working configuration can be adjusted from 970 to 1,250 mm from the track axis
- **working depth adjustable** over 200 mm
- **radiocontrolled** from the loader cab

REEN

2-head on track readzing machine

Weight
600 kg

Power source
• petrol • electric

A variety of consumables, tools and accessories are available on request.

- **for adzing** new sleepers, **or re-adzing work**
- **1/20 or 1/40 angle** on either one or both rail seats
- **the 2 motorized heads are adjustable** vertically and horizontally
- various **carbide cutters** to suit all type of adzing patterns
- **template** for cutter
- the machine runs on rails placed on the sleeper ends
- **7000 G**: stationary version with drilling function is available

DN80

Chamfering machine

Weight

Power Source • petrol • diesel

A variety of consumables, tools and accessories are available on request.

- **adjustable chamfering head:** distance to rail base and chamfer depth are controlled
- rollers guide the machine along the **rail base**
- the chamfering tool can be removed and features **2 or 4 carbide cutters** suitable for **45 to 120 mm wide adzing**
- clutch is right arm-controlled
- a **template** is available **to adjust the cutters**
- 4-wheel traversing trolley

GEISMAR
GEISMAR
GEISMAR
ARRET

4 MULTI-FUNCTION

4

- **Multipurpose** *superlight* **set**
- **Multipurpose hydraulic power packs**
- *Road-rail* **loader/excavators**

GMSL

Weight

Power source • petrol • electric

A variety of consumables, tools and accessories are available on request.

Multipurpose super light tool set

- **self-contained** power pack with 1.5 m flexible shaft
- **handy to use** with swivel base
- **optimum size/weight/power ratio**
- easy to transport and to operate
- **safe:** speed control and centrifugal clutch
- **versatile: GMSL powers numerous tools;** various grindstones to suit a variety of applications (cup type, disc, abrasive and micro grindstones...); bonding drill attachment etc…

GH 5 & 5/10

Multipurpose hydraulic power packs

- petrol
- diesel (for GH5/10)

Power source

A variety of consumables, tools and accessories are available on request.

HYDRAULIC SETS

4

GH 5
GH 5/10

high performance & compact power packs with hydraulic circuit cooler:

- **GH 5: 1 x 20 l/min** outlets at 140 bar (2,000 PSI),
- **GH 5/10: 1 x 40 l/min** or 2 x 20l/min outlets at 140 bar (2,000 PSI),

- **over 20 tools** can be powered from the **GH 5/10 and 10 tools** from the **GH 5** *(pages 104 and 105)* to drill, cut, grind and shear **rails**; drill **sleepers;** (un) tighten **fastenings;** insert-extract **spikes;** tamp **ballast** (vibration or percussion)
- **7 or 15 m hoses** with push-pull leakproof couplers
- options: - transportation kit for **travel on track or on trackside**
  - motorised wheels

GH 5
GH 5/10

Range of tools powered by the

1 GRINDING

pages

MP 5/6/12 H
Profile grinders for rails and turnouts 45/48/46

MOD 12 H
Corrugation grinder 53

MS9-H
Rail web and fishing table grinder 51

MC3-H
Turnouts grinder 49

600 YH2-600 XH
Right-angle tool-holder

600 WH4
Straight tool-holder

2 CUTTING

pages

MTX 300/350/400-H
Safe disc cutter 35

3 SHEARING

ESN-ALW-PS
Weld shear 41

Tools powered by the **GH 5**
Tools powered by the **GH 5/10**

multipurpose power packs **GH 5 & 5/10**

Please let us know *your specific needs, if not in this list*

4 SLEEPER DRILLING

pages

PTXL-H
Safe and portable sleeper drill *94*

5 RAIL DRILLING

PRUL-H
Carbide tools rail drill..... *38*

PR8-H
Standart rail drill..... *40*

6 TAMPING

VIBH
Vibrator

TT1
Percussion hammer

7 TIGHTENING AND FASTENING

pages

HIW 3
Portable wrench *72*

TMI 2H
Portable coachscrewing machine *76*

8 SPIKES

SP3
Extracting tool

SD1
Inserting tool

Tools powered by the **GH 5**
Tools powered by the **GH 5/10**

GH 5
GH 5/10

KGT-4RS

Weight
± 20 t

Powerful and versatile road-rail loader/excavator

Associated products

the R25TR and UTE trailers, (pages 156 and 157) enables transporting the KGT-4RS

- **129 kW,** water cooled Diesel engine (III to IV)
- power Shift transmission on 4 wheel drive
- **4 wheel steering,**
  - turning radius : 4.2 m
- dual pneumo-hydraulic brake circuit
- **universal boom,** 2 jibs with telescopic extension
- **up to 7.5 t max. lifting**
- **up to 7.2 m max. horizontal outreach**
- full 360° rotation
- **state-of-the art** on-rail drive system using the tyres/wheels **without infringing gauge**
- articulated rail device to accommodate track twist
- speeds:
  - up to 40 kmph on rail
  - 25 kmph on road
- a complete range of attachments dedicated to track working are available
- electro-hydraulic rotation and height limiting (adjustable)
- fast on/off-tracking
- track gauges:
  from 1,000mm to 1,676mm

KGT-E

Multipurpose road-rail loader/excavator

Weight
± 23 t

Associated products

the R25TR and UTE trailers, (pages 156 and 157) enables transporting the KGT-E

- **129 kW**, water cooled Diesel engine (IV)
- **dual drive mode:**
  - **on road =** hydrostatic transmission 4 wheel drive and steering, turning radius = 4.2 m
  - **on rail =** hydrostatic transmission with 4 railway driving wheels Ø 630 mm
- dual pneumatic brake circuit
- **triple articulated boom** for excavation
- **up to 5.2 t lifting capacity** on tip of jib with **up to 7.8 m max. horizontal outreach**
- **the extendable counterweight** increases the lifting capacity **by 10%**
- hydraulic power: **up to 110 kW** on tip of jib
- full 360° rotation
- spacious and ergonomic **cab for 2 persons**
- fast and reliable **hydraulic controls,** with PLC monitoring
- speeds:
  - **up to 20 kmph on rail**
  - **30 kmph on road**
- a complete range of attachments and jibs dedicated to track working are available
- electro-hydraulic rotation and height limiting devices (adjustable)
- fast on/off-tracking
- track gauge: 1,435 mm, others on request
- **approved:** NF F 58-003
- **SNCF approved** n° DPI 14221

Range of attachments of the KGT-4RS

HANDLING

OBP
Clamshell buckets
page 182

OBF
Front buckets
page 182

OMR
LWR roller clamp
page 176

OFT
Sleeper fork
page 180

OFF
Front fork
page 180

PAR
Hydraulic rail grab
page 176

PCT
Sleeper beam with chains
page 181

PTV
Hydraulic beam for sleepers
page 181

OEA
Magnet
page 140

INFRASTRUCTURE

ODL
Blade grasscutter
page 138

ORD
Hydraulic brushcutter
page 138

OTC
Ditch cleaning rotor
page 138

KGT-E & KGT-P

Please let us know *your specific needs, if not in this list*

& CIVIL ENGINEERING

OGR
Retro buckets
page 139

OPV
Vertical drill
page 140

OGC
Clearing buckets
page 139

OBR
Hydraulic hammer
page 139

TRACK WORKS

MB8 AC
2-head tamping unit
page 130

BRV
Track brush
page 133

MB
1or 2-heads tamping unit
page 129

ORT
Sleeper changing beam

ODC
Ballast cribs clearing beam
page 119

TTB 220
Sleeper saw
page 95

KGT-P

Weight
28 t

Extremely powerful and versatile road-rail loader/excavator

- **129 kW,** water cooled Diesel Diesel engine (IV)
- power Shift transmission with 4 wheel drive and twin tyre wheels
- **4 wheel steering**
  - turning radius : 4.2 m
- dual pneumo-hydraulic brake circuit
- **universal boom,** 2 jibs with telescopic extension
- **up to 11 t lifting** capacity
- **up to 7.2 m horizontal outreach**
- full 360° rotation
- spacious and ergonomic cab for 2 persons
- **state-of-the art** non-infringing on-rail drive system using the tyres/wheels **without infringing gauge**
- articulated rail device to accommodate track twist
- speeds:
  - up to 30 kmph on rail
  - 30 kmph on road
- a complete range of attachments dedicated to track working are available
- electro-hydraulic rotation and height limiting (adjustable)
- fast on/off-tracking
- track gauges :
  from 1,435mm to 1,676mm
- **approved:** EN 15746

Associated products

the R25TR and UTE trailers, (pages 156 and 157) enables transporting the KGT-P

5 TRACK WORKS

LAYING & RENEWAL:

- **turnouts and mounted panels:**
  Trolleys for longitudinal transport
  Modular renewal gantries
  Trackpanel laying and removal system
- **panels and sleepers:**
  Laying & renewal gantries
- **slab track:**
  Slab track positionning units
- **rails and/or sleepers:**
  Gantries
  LWRs and sleeper positioner
  Rail threader
- **sleeper replacement method:**
  Ballast clearing attachment *for loader/excavator - Sleeper* changing machine
  Sleeper fixing machine

SLEWING: Slewing machine

LIFTING: Track lifting machine

TAMPING: Tamping sets and units - Light tampers
Hydraulic tampers

BALLAST PROFILING: Ballast regulators - Brush *mounted on loader/excavator*

INFRASTRUCTURE MAINTENANCE: Attachments for loader/excavator
Vehicles: track motorcars

LEM 460

Weight 4 t

A variety of consumables, tools and accessories are available on request.

Radiocontrolled self-propelled trolleys for transport

Dedicated trolleys for use with the PEM gantries, for the transport of panels and turnouts

- **radiocontrolled: one operator** can operate up to 8 **LEMs**
- **features onboard hydraulic power pack**
- **loading capacity: 20 t**
- **lifting and slewing table** for clearing the gauge of low trackside obstacles
- 400 mm Ø wheels
- Auxiliary track can be supplied for the **LEMs** to run on to assist the installation process

PEM 807

Weight 4 t

Radiocontrolled self-propelled laying and renewal gantries

A variety of consumables, tools and accessories are available on request.

Modular system **to lay or renew track panels and turnouts without deformation**

- **powerful: 20 t of lifting capacity**
- **accurate: 3-way control of the load**
- **radiocontrolled: one operator** can control up to 8 **PEMs**
- supports can extend up to 5 m to suit all handling configurations and **unload turnouts from transport wagons**
- **self-propelled: 5 kmph**
- use with transport trolleys **LEM 460** or alone for slewing only

PWP

Switches laying and removal gantries

Weight
10 t

A variety of consumables, tools and accessories are available on request.

- **Limited obstruction of the adjacent track,**
- S&C lifting and conveying whist remaining flat and in a central position over the track, **no tilting or swinging risk;**
- **Precise positioning** of the S&C panel into its final position
- Radio controlled operation **keeps the operator at a safe distance;**
- Able to work **simultaneously in 2 working areas** (laying and reloading), on the same track;
- **Quick and easy clamping** by hydraulic clamps;
- The system can be used on **single line track;**
- **Long slewing distances** possible;
- Alternative **routing by road possible.**

S2PV

Trackpanel laying and removal system

Weight
- *transfer = 17.4 t*
- *laying = 16.5 t*
- *transport = 23 t*

A variety of consumables, tools and accessories are available on request.

Modular system to lay or remove track panels without deformation:

- system configuration:
  - **PEM XL**, gantries with connection bars,
  - **LMC**, motorized caterpillar trolley,
  - **LEM 460**, motorized transportation trolley,
  - **P2PV**, loading and transportation beam with connection ramp.
- **radio controlled and synchronized** by an operator per driving post (transfer, laying and transport).
- modular and adapted to different lentghs of trackpanels:
  - **36 m = 3 PEM XL** gantries
  - **24 m = 2 PEM XL** gantries
- **loading capacity: 22 t** (option 24 t)

SPAC

Switch laying and removal system

Weight
- PEM XL: 4.75 t
- LMC 4611: 13.4 t
- LEM 460: 4.2t
- P2PV: 11 t

A variety of consumables, tools and accessories are available on request.

Modular system to install or remove switches without deformation:

- system configuration:
  - **PEM XL** gantries;
  - **LMC 4611** motorized rail and caterpillar transportation trolley;
  - **LEM 460** motorized rail transportation trolley;
  - **P2PV** loading and transportation beam with connection ramp;
- **Radio controlled and synchronized** by a single operator (transfer, installation, transport);
- Modular and adapted to different lengths of switches, example:
  33 m = 4 PEM XL + 2 LMC + 1 LEM + 1 P2PV

PTH 350-500

Track laying and renewal telescopic gantries

Weight *PTH 350 = (1 pair) 12 t*
PTH 500 = (1 pair) 21 t

A variety of consumables, tools and accessories are available on request.

- lay or renew **up to 450 m of track per hour**
- one pair **lifts 18 to 30 t**
- beam with hydraulic grabs or loose lifting chains with the facility for lateral adjustment
- **up to 36 m panels or 70 sleepers,** wooden or concrete, can be handled
- hydrostatic transmission to all wheels; available for 1,000 to 1,676 mm gauge tracks; up to 16 kmph on level under load
- **synchronised travelling control**
- 75 to 120 HP
- gantries and beam are easily **transported on standard flat wagons** in most gauges

PRV 550

Slab track positioning units

Weight
1,750 kg per gantry

Power source
- integrated electric power unit: 80 kVA

A variety of consumables, tools and accessories are available on request.

- **allows very accurate positioning** of **slab track** on urban and high speed lines before concreting
- Handling of 15 to 18m slab track section with **4 gantries** and 1 motorised unit controlled by a single operator.
- **3 t** lifting capacity per gantry
- **700 mm** lifting stroke
- **200 mm** (± 100 mm) slewing stroke
- **380 mm** (± 190 mm) of cant deficiency
- **wander lead or radio** for single or multiple contol of gantries
- **self-propelled:** 5 km/h travelling speed

PMC 8101

Gantries for replacement of S&C units

Weight 10.8 t

A variety of consumables, tools and accessories are available on request.

- **allows replacement of crossings and half sets of switches** without deformation
- **multiple units operation** for handling of the long S&C components particular to high speed lines
- **1 single operator controls up to 4 PMC** gantries via 1 remote control
- **12.8 t** lifting capacity
- 1,375 mm slewing stroke
- 1,850 mm lifting stroke
- **a self-contained gantry** equipped with:
  - 1 hydraulic control unit for lifting and slewing operations
  - 4 electric winches for handling operations
  - lighting and safety equipments
  - 1 power unit: 25.8 HP

MPR

LWRs threader

Weight
1,095 kg

Power source
• petrol • diesel

A variety of consumables, tools and accessories are available on request.

- self-propelled hydraulically driven unit for laying and removing long welded rail with **one operator**
- 800 m per hour output
- 914 to 3,330 mm working gauge
- handles rail from 37 to 70 kg/m
- up to 500 mm lift; **4.5 t capacity;** supports for all types of sleeper
- **fast off-tracking** set available
- third ram available for handling a single rail
- **power outlet for ATR 6 - 16** rail pullers

Associated products

the ATR6 rail puller (page 172) can be powered by the rail threader

ODC

Ballast cribs clearing beam

Weight 2 t

A variety of consumables, tools and accessories are available on request.

an attachment for KGTs *(pages 104/5/8);*
can also be fitted to other road/rail excavator types subject to specification.
Warning this attachment has restrictions in use, contact us.

- used prior to sleeper replacement **to prevent "high points"**
- **4 or 6 paddles with 4 t power** clear all types of ballast
- from 300 to 600 mm clearing depth
- 540 mm clearing stroke

Associated products

this attachment is best used with the road-rail loader-excavators KGT (pages 104/5/8) ; spot work can also be done with the OBP clamshell buckets (page 182)

MRT 2/4 SR

Weight 5 t

Sleeper changing machine

A variety of consumables, tools and accessories are available on request.

- removes and inserts **up to 40 sleepers per hour with one single operator**
- handles the heaviest of wooden or concrete sleepers
- over 40° adjustment of the beam and clamp **enables the handling of sleepers to or from irregular track side** conditions.
- 30 kmph speed on rail
- **quick and easy off & on-tracking** through clamp action and 2 pneumatic wheels
- **180° pivoting clamp and "kicker"** are available as options
- **closed cabin** providing good visibility and a high degree of comfort to the operator; with or without air-conditioning

LFT

Sleeper fixing machine

Weight 4 t

A variety of consumables, tools and accessories are available on request.

- used after sleepers are inserted
- 4 **mechanised operations with only 2 operators: gauge fixing,** sleeper lifting, positioning, and fastening
- sleeper unit **features lateral and longitudinal positioning and squaring**
- fastening unit features 2 hydraulic heads with **precise torque control**
- 4 retractable rubber-tyred wheels allow **easy off and on-tracking**
- **front-end fork** attachment allows the handling of a 500 kg trolley with materials

Associated products

after renewal, the sleepers are best tamped by the MB8 AC, the BRAD or the BRM8 AC (pages 130 to 132)

RV100

Track slewing machine

Weight
1.5 t

Power source
• petrol • diesel

A variety of consumables, tools and accessories are available on request.

- for lifting and precise positioning of any track
- **20 t lifting capacity**
- **1,150 mm lifting stroke**
- 10 t slewing power
- ± 360 mm slewing stroke
- **off-tracking kit** is available

LNR 528 - 529

Lightweight **track lifting machine**

Weight from 480 kg to 750 kg, depending on selected model

Power source • petrol

A variety of consumables, tools and accessories are available on request.

- **accurate lifting** by one operator during tamping operations
- **radio-controlled operation** for:
  - travelling
  - clamping of the rail
  - individual or synchronised rail lifting
- **8 to 15 t lifting capacity,** depending on selected model
- **600 to 800 mm lifting stroke,** depending on selected model
- **± 100 mm slewing stroke, LNR 529** only

Associated products

this unit is best-used with hydraulic tampers MB8 AC, BRAD or BRM8 AC (pages 130 to 132)

VPS

Super lightweight portable self-powered vibrating ballast tamping machine

Weight
19 kg

Power source
• petrol 4-stroke Honda engine

A variety of consumables, tools and accessories are available on request.

- lightweight tamping machine with incorporated 4-stroke engine for precise, efficient and quality tamping **under any kind of sleeper** (wooden, concrete, steel);
- **the vibrating tip** (interchangeable) enables good diving in the ballast and quality tamping with minimum ballast deformation;
- ergonomically designed to:
  - lightness and handling of the vibrator;
  - autonomy with incorporated 4-stroke engine;
  - reduce the vibration transmitted to the operator;
  - reduce noise level;
  - transport of the vibrator with a suitable dust cover.
- **SNCF approved** n° DPI 14034

VBZ

Portable self-powered vibrating ballast tamping machine

Weight 34 kg

Power source • petrol

A variety of consumables, tools and accessories are available on request.

- the only self-contained tamping machine, portable and self-powered, with incorporated 2-stroke engine for precise, efficient and quality tamping with minimum ballast deformation
- **multidirectional constant vibration** ballast tamping for better consolidation (as with our whole range of tamping equipment) **under any kind of sleeper** (wooden, concrete, steel)
- exclusive vibration dampening system to protect the operator
- **blade and tip width** enable homogeneous and compact tamping of a **wider ballast area in only one operation**
- ergonomically designed to:
  - reduce the vibration transmitted to the operator
  - provide comfort of use
  - protect against shock
  - reduce noise level through optimized engine soundproofing
  - visibility
- optional carrying trolley

GEISMAR

GB4 S

50 Hz
electric ballast tamping set

Power source • petrol • diesel

A variety of consumables, tools and accessories are available on request.

- mounted on a wheel barrow frame
- **5 kVA 3-phase, 4 outlets and 3.7 kVA 1-phase, 1 outlet electric generator**
  - weight:
- **4 nos 50 Hz vibrators** with antivibrating handles and 11 m cables
  - weight per vibrator:
- various blades & tips **suit any sleeper and ballast size**
- **50 m drum**
- options: individual switches and rail roller

BLH 20

Light tamping machine

Weight
1,100 kg

Power source
• petrol • diesel

A variety of consumables, tools and accessories are available on request.

- 4 wheeled frame with 4 electric tamping heads for operation by a single operator
- **60 m per hour output**
- the 2 heads featuring **4 positions and diagonal tamping configuration**
- **tamping heads are hydraulically lowered and raised**
- 3.5 kVA, 3-phase electric generator; 42,130 or 220 V
- 70 Hz tamping heads
- **self-propelled**, negative brake and **off-tracking device**

MB

Weight MB1T ≈ 800 kg
MB2T ≈ 1,250 kg

A variety of consumables, tools and accessories are available on request.

Single or double headed track and turnout tamping unit

Associated products

this unit is best-used with the road-rail loader-excavators KGT (pages 104/5/8); can also be fitted to other road/rail excavator types subject to specification

an attachment for the KGT *(pages 104/5/8) ;*
Can also be fitted to other road/rail excavator types subject to specification.
Warning this attachment has restrictions in use, contact us.

For mechanical tamping of the ballast on any track configurations

- **MB 1T: up to 100 sleepers per hour** *(both rails)*
  1 tamping head with adjustable plunge depth
- **MB 2TL: up to 200 sleepers per hour** *(both rails)*
  2 lightweight tamping heads with independent lifting of each head
- **4 tines** with elliptic 46 Hz vibrations ensure **first class consolidation**
- **Manual tamping cycle** operated by one operator from the rail-road excavator
- Suitable for tamping **twin sleepers and turnouts**
- Other model: **MB 8AC,** 2-head tamping unit mounted on frame with guide wheels *(up to 240 sleepers/h - 2,540 kg)*

MB8 AC

Weight 2.5 t

A variety of consumables, tools and accessories are available on request.

2-head track and turnouts tamping unit

Associated products

this unit is best-used with the road-rail loader-excavators KGT (pages 104/5/8); can also be fitted to other road/rail excavator types subject to specification

- **up to 240 sleepers per hour**
- **8 tines** with elliptic 46 Hz vibrations ensure **first class consolidation**
- **manual or automatic control** of the tamping cycles
- **2 independent tamping heads** with variable depth and positioning control
- able to tamp **twin sleepers and turnouts**
- enables tamping of adjacent track and turnout deviations
- **low noise operation**
- optional equipment:
  - **radiocontrol**
  - ***NDO levelling system** which enables to correct track level and cant geometry defects.

BRAD

Track off-trackable tamper

Weight 5.8 t

A variety of consumables, tools and accessories are available on request.

Associated products

The BRAD ensures the tamping of the sleepers renewed with the Geismar method using the MRT and the LFT (pages 120 and 121)

- **up to 360 sleepers per hour**
- **8 tines** with elliptic 46 Hz vibrations ensure **first class tamping**
- manual or automatic tamping cycles
- **2 tamping heads** with adjustable tamping depth
- able to tamp **twin sleepers**
- **ergonomic and noise insulated cab**
- **easily off-tracked** through 4 retractable rubber-tyred wheels
- **25 kmph** speed on rail
- optional equipment: **LNR 529** track lifting machine and **VPK 1300** view finders

BRM8 AC

Track and turnouts modular tamper

Weight *8 to 10 t according to version*

A variety of consumables, tools and accessories are available on request.

- output up to **360 sleepers/h**
- **2 independent tamping heads** with adjustable depth and position control
- capable of tamping **turnouts** and **twin sleepers**
- **4 tines** per tamping head with elliptic 46 Hz vibrations ensure **first class tamping**

modular configurations:

- cab: **opened** or **closed** (with or without air-conditioning)
- autonomous on/off-tracking: **retractable tyred wheels** or **lifting/slewing system** for loading on flat wagon
- wheel arrangement: **axles** or **bogies; interchangeable** depending upon gauge and curve radius
- **second driving axle** for steeper ramps

BRV

Track brush

Weight 2,400 kg

A variety of consumables, tools and accessories are available on request.

a dedicated railway attachment for KGTs (pages 104/5/8) that ensures a fine finish of the ballast profile;

can also be adapted to other road/rail excavator types subject to specification

- **up to 1,000 m of track can be cleaned per hour**
- 2,500 mm wide brush
- brush consisting of 55 mm Ø thick rubber tubes filaments
- 830 mm diameter brush
- **built-in conveyor** to move any excess ballast sideways
- **adjustable sweeping depth**
- hydraulic motors fed by the road-rail excavator
- optional: power pack for towed stand-alone brush machine

Associated products

this module is best-used with the road-rail loader-excavator KGT (pages 104/5/8).

VMT 10A

Bridge inspection track motorcar

Weight: *VMT 900 = 30 t (including vehicle)*
VMB = 70 t (including vehicle)

A variety of consumables, tools and accessories are available on request.

- available in **900 series and VMB** range *(pages 163-164)* *(subject to review for narrow gauges)*
- 90 km/h speed on level track
- optional driving cabs at both ends to comply with UIC visibility requirements
- automatic braking conforming to UIC requirements
- **elevated crane** equipped with:
  - **3 articulating boom** sections for under bridge inspection
  - **self-levelling cradle for 2 operators** + tools
  - counter-weight
- maximum outreach of the cradle:
  - **vertical:** -14.5 m to 22.5 m
  - **horizontal:** -10.5 m to 20 m
- 5 km/h maximum working speed
- **creep speed** (0.5 km/h) and jib movements controlled from the cradle
- power set for portable tools

VMT CN

Snow blower track motorcar

Weight 33 t (with VMT 800 CN)

A variety of consumables, tools and accessories are available on request.

- available for **800 and 900 series** vehicles *(pages 162-163)*
- 90 kmph speed on level track
- UIC automatic braking
- removable snow clearing device including:
  - **2 independent rotating clearing heads**
  - **2 adjustable snow ejectors/blowers** (left/right)
- clears up to **1,450 t per hour**
- clearing width: **4.7 m** maximum
- **20 kmph** working speed maximum
- front and lateral clearing blades are also available
- up to 9 t.m hydraulic crane

VMT DES

Weed-killing track motorcars

Weight *20 to 40 t depending on vehicle*

A variety of consumables, tools and accessories are available on request.

- available for **700, 800, 900 and VMB series** vehicles *(pages 161 to 164)*
- **self-contained motorised pump** with 4,000 to 12,000 l **stainless steel tank**
- **central and lateral nozzles** can be adjusted to **spray over 6 m** from the track axis
- spraying of 135 to 2,400 l per hectare at **10 to 30 kmph** speed, depending on vegetation & configuration

VMB DEB

Brush-cutting track motorcars

Weight 70 t

A variety of consumables, tools and accessories are available on request.

Associated products

KGTs loader-excavators can also be used for brush-cutting (pages 104/5/8)

- available on **VMB series** *(page 164)*
- **90 kmph speed** on level track
- driving cabs at both ends to comply with UIC visibility requirements
- UIC automatic braking
- **swivelling turret** in the centre of the frame equipped with:
  - **1 closed cab** with control panel for one operator
  - 1 counterweight
  - **3 strengthened articulating boom sections**
  - **1 pivoting/rotating brush cutting tool**
- maximum outreach:
  - horizontal = **9.5 m**
  - vertical above the level of the rail = **7.2 m**
  - vertical under the level of the rail = **- 3 m**
- **cutting diameter: 200 mm** maximum
- up to 1.5 m cutting width
- **5 kmph working speed** maximum

INFRASTRUCTURE MAINTENANCE

attachments
vegetation
ditches

5

ORD - ODL
OTC

The attachments for KGTs (pages 104/5/8) ; can also be fitted to other road/rail excavator types subject to specification

ORD

Associated products

Can also be fitted on a heavy-duty track motorcar, VMB DEB (page 137)

Hydraulic brushcutter

For clearing trackside vegetation:

- cutting width: **1,500 mm**
- optimum productivity
- **various cutters** available to suit every type of vegetation
- able to **cut up to 80 mm diameter**

ODL

Blade grasscutter

For clearing trackside over-growth of grass :

- tool fitted with **horizontal blades**
- suitable to clear grass over large areas
- cutting width: **1,000 mm**

OTC

Ditch cleaning rotor

For the maintenance of drainage ditches:

- **up to 1,000 m of earth ditches** can be cleaned in one hour
- the powerful **hydraulic rotor** features **carbide tools** and waste deflectors for safety
- 450 mm maximum cleaning depth

INFRASTRUCTURE MAINTENANCE

attachments
ditches
civil works

5

OGC - OGR
OBR

The attachments for KGTs (pages 104/5/8) ; can also be fitted to other road/rail excavator types subject to specification

OGC

Clearing buckets

For maintenance of the trackside:

- the clearing retro buckets feature **150 to 1,000 l capacity**
- **standard or "V" shaped** to clean and shape back drainage ditches
- up to 2,000 mm wide
- **tilting versions** available **for re-ballasting** purposes

OGR

Retro buckets

For civil works, clearing and excavation:

- a range of buckets **up to 600 l** capacity suits conventional tasks

OBR

Hydraulic hammer

For civil works in quarries and rock breaking:

- up to **900 blows per minute**
- **various points and hammers** up to 100 mm diameter

The attachments for KGTs (pages 104/5/8-) ; can also be fitted to other road/rail excavator types subject to specification

OPV

Vertical drill

For excavation works:

- **able to drill in standard soil**; various sizes are available **up to 800 mm diameter**
- the hydraulic tool is able to drill down to a **2 m depth** (or more when fitted with extensions)

OEA

Magnet

For collecting ferrous materials:

- up to **2 t lifting capacity**
- fed from the hydraulic circuit of the KGT-4RS or KGT-E
- **220 V tension**
- **950 mm diameter** magnetized shoe

6 TRANSPORT

OF PERSONNEL FOR INSPECTION OR SPOT WORKS

Off-trackable trolleys

OF EQUIPMENT AND MATERIALS

Trolleys
Transport trolleys
Trailers
LWRs transport - *train*
- *mini-wagons*

MULTIPURPOSE VEHICLES

Track motorcars
Road-rail vehicles

TOWING VEHICLES

Road-rail shunters
Shunters

RH2

Inspection motor-trolley

Weight
±360 kg

Power source
• petrol engine

A variety of consumables, tools and accessories are available on request.

- **light frame,** 2.5 m long with **roof and front end**
- 2-speed mechanical transmission, drum brakes, rubber + oscillating arms suspension
- Ø 406 mm pressed steel wheels
- **45 kmph speed** (forward)
- **2 or 4-seater**
- options: reverse drive, canvas sides, electric package, off-tracking and turning device

Associated products

track maintenance gangs are transported by the VMT track motorcars, (pages 160 to 163)

MINI 4

Weight *MINI 4-2: ≈ 100 kg*
MINI 4-4: ≈ 185 kg

A variety of consumables, tools and accessories are available on request.

Multipurpose lightweight motor-trolleys - off-trackable

- ideal for track inspection and interventions
- welded lightweight tubular steel frame
- aluminium wheels, 1,435 mm gauge *(other on request)*
- 4-stroke petrol engine, **4 HP** power with centrifugal clutch, disc brakes
- ≈ 4 h autonomy *(≈ 40 km)*
- speed 16 kmph
- 2 models:
  - **MINI 4-2: 2-seater,** automatic transmission
  - **MINI 4-4: 4-seater,** transmission - bi-directional gearbox
- tools tray and lighting pack available
- **Mini BT:** trailer available with the **MINI 4-4**

VT 438

Maintenance trolleys

Weight
4.5 t

A variety of consumables, tools and accessories are available on request.

Track motor trolleys designed for the transport of material and persons

- power 80 to 120 HP
- sturdy frame 4 to 5 m length
- **hydrostatic drive** with axles, hydrostatic braking
- forged steel wheels of 550 mm Ø
- speed: up to 50 kmph bi-directional
- various cabs are available for **seating 4 to 11**: steel construction fully enclosed or semi open with foldable canvas sides
- various seats are available:
  individual benches or foldable seat
- load capacity:
  800 to 1,000 kg according to version
- suitable for **towing up to 2 t**

VT 4141

Inspection vehicle

Weight
1,300 kg

Power source
• 13 HP petrol

A variety of consumables, tools and accessories are available on request.

- vehicle with insulated wheels **for inspecting the track and its components**
- **hydrostatic drive**
- features turning ram and **radio-controlled** off-tracking with retractable wheels
- **4-seater cab** with 360° overall view and doors with **direct access to the track**
- pivoting **safety panels protect the inspectors** when they step down on the track
- 2 speeds: 30 kmph when travelling
  0-10 kmph for the inspection
- **2,000 W powerful lighting** for night inspection

CMM 476

Multipurpose monorail trolley

Weight
19 kg

A variety of consumables, tools and accessories are available on request.

- the **modular design** enables equipment and materials to be transported
- 850 x 400 mm loading deck
- removable 2 positions side bar
- retractable pushing handle
- **2 trolleys in line** are suitable **to transport sleepers or closure rails**
- 2 trolleys **can also operate in parallel** with connecting bars
- reinforced 110 mm Ø nylon rollers
- **CMM 476** can also be **used upside down as a temporary rail roller**

CH

Trolleys

Weight

A variety of consumables, tools and accessories are available on request.

A wide range available to meet all requirements

- **steel or aluminium** decks and frames, one-piece models and **break-down models**
- wheels and rollers from 58 to 280 mm Ø, made of steel, aluminium or nylon, insulated or not
- **up to 5 m²** standard **decks**
- **up to 3,000 kg payload**
- with single or double brake; negative brake version also available
- **special versions:** with gas bottles racks, **stretchers and medical care variants,** motorized version with self-contained power set, guided version for track-way systems

LLF 471

Lightweight braked trolley

Weight

A variety of consumables, tools and accessories are available on request.

Very lightweight unit for the transport of tools and materials on the worksite

- steel chassis with steel or timber platform
- plastic or insulated steel rollers 63 mm Ø
- **loading platform 1.60 x 0.90 m**
- **load Capacity 500 kg**
- reversible Push Bar with auto braking

LLM 401

Self-propelled trolley

Weight
120 kg

Power source
- petrol
- electric

A variety of consumables, tools and accessories are available on request.

Motorized version for transporting materials and tools to site

- **5 kmph** speed
- steel frame with **500 kg capacity** deck
- **removable drive unit**
- safety: circuit breaker, negative braking

MA, TR

Transport trolleys

Weight 65 to 900 kg

A variety of consumables, tools and accessories are available on request.

MA3, MA5, MA8, MA10, TR10 etc…

- **3 to 20 t useful load**
- insulated or non insulated **cast steel wheels,** Ø 100, 190 or 250 mm (**TR 10** up to 400 mm)
- 275 to 540 mm wheelbase
- brakes available depending on models
- Aluminium special manufacturing
- link bars to tow panels
- **pivoting and sliding platform an option**
- central or lateral **loading jib with 1 t winch and rail clamp**

TR10: can be towed at 30 kmph

SPECIAL TRANSPORT TROLLEYS up to 400 t load

RTM

Weight *RTM 10 = 1.95 t with boards*
RTM 20 = 3.6 t with boards

A variety of consumables, tools and accessories are available on request.

Modular transport trailers

Adaptable for the transport of all types of equipment

- **payload: RTM 10 = 10 t**
  RTM 20 = 20 t
- 1435 mm track gauge *(others on request)*
- loading platform: **RTM 10 = 10 m²**
  RTM 20 = 13,5 m²
- **up to 25 km/h** towing speed
- rockinger coupling *(others on request)*
- forged steel wheels of 470 mm Ø = **RTM 10** - **RTB 10**
  machined steel wheels of 600 mm Ø = **RTM 20**
- **auto-locking brake,** défreinage par air ou système mécanique de secours
- optional: boards, stanchions and canvas
- other model: **RTB 10** : trailer, tipping from either side and from the rear, payload 10 t

Associated products

the KGT road-rail loaders, (pages 104/5/8) can be used for towing equipment and materials to the site

RT

Transport trailers

Weight 3 to 8 t

A variety of consumables, tools and accessories are available on request.

- **10, 15 and 25 t payload**
- **11 to 28 m²** loading platform
- **60 to 100 kmph** speed with leaf or double helicoïdal springs suspension
- **automatic braking**; mechanical wheel **parking brake**
- Pin-type or railway **coupling**
- trailers with bogies available on request

Associated products

the VMT track motorcars, (pages 160 to 163) can be used for towing equipment and materials to the site

RTB

Tilting trailers

Weight 3 to 9 t

A variety of consumables, tools and accessories are available on request.

- **10, 15 and 25 t payload**
- **11 to 28 m²** loading platform
- **60 or 100 kmph** speed with leaf or double helicoïdal springs suspension
- **automatic braking** activated by track motorcar, mechanical wheel **parking brake**
- Pin-type or railway **coupling**
- optional gangway
- **2 or 3-side tilting platform**
- the hydraulic tilting is fed from the track motorcar or from an onboard self-contained pack

Associated products

the VMT track motorcars, (pages 160 to 163) can be used for towing equipment and materials to the site

R10BAL

Ballast hopper trailer

Weight 7 t

A variety of consumables, tools and accessories are available on request.

- **10 t** payload
- **10 m³** ballast hopper
- **60 kmph** with leaf springs suspension
- wheel-actuated **lateral or central unloading** of the ballast
- **automatic braking** activated by track motorcar, mechanical wheel **parking brake**
- Pin-type or railway coupling

Associated products

the VMT track motorcars, (pages 160 to 163) can be used for towing equipment and materials to the site

RTA

Workshop trailers

Weight *7 to 10 t depending on configuration*

A variety of consumables, tools and accessories are available on request.

- **10 and 15 t** payload
- **17 m²** loading platform
- **60 kmph** speed
- various versions are available: **fully equipped workshop, gang accomodation base, storage container**
- sliding lateral **doors**
- self-contained **power generator** available
- **automatic braking** activated by track motorcar, mechanical wheel **parking brake**
- Pin-type or railway coupling

R25TR

Heavy plant transport trailer

Weight
7 t

A variety of consumables, tools and accessories are available on request.

- **25 t capacity** to transport the KGT or other **civil works machinery**
- features 770 mm low deck
- 9 x 2.6 m loading area
- **80 kmph** speed
- loading ramps feature spring return
- **automatic braking** activated by track motorcar, mechanical wheel **parking brake**
- 2 pin-type couplers and one railway coupler enables **towing at the rear of train**
- 3-seater cabin available

UTE 400

Modular multifonction transport unit

Weight
4.5 t

A variety of consumables, tools and accessories are available on request.

- **30 t capacity,** for plant machinery with rubber tyres or caterpillars
- 715 mm low deck
- loading platform: **6 x 2.8 m** *(other dimensions on request)*
- towing speed: **up to 20 kmph**
- loading ramps securely held in folded position by retaining rods
- railway trolleys with forged steel wheels Ø 400 mm for 1435 mm track *(others on request)*
- **auto-locking brake,** air release
- **multifunction,** trolleys have Twist-lock fixing and can be used for transporting: - containers
  - various tippers or skips types
  - track panels…
- towing coupler with Ø 40 mm eye

LWR transport train

A variety of consumables, tools and accessories are available on request.

- for safe and long haul **transport**
- components are fitted onto customer's wagons to transport **LWR**
- horizontal and vertical rollers accommodate 10 rails per layer; 2nd and 3rd layers are mounted on pivoting supports
- **fixed point** clamping wagons
- **driving and guiding station**
- loading & unloading ramps + crane
- loading through gantries or driving station at LWR workshop
- **discharging** of LWR is achieved when the train drives away

Associated products

the EMD trailer and the STR system to tow & unload rail (pages 178-179) can be used when LWRs just need to be unloaded

TMW

LWR transport mini-wagons

A variety of consumables, tools and accessories are available on request.

- **modular formation** of coupled and braked (1 out of 2) mini-wagons to transport **20 LWR up to 150 m long**
- capacity of each mini-wagon: 10 t
- 400 mm Ø cast steel wheels
- vertical and horizontal rollers accommodate 10 rails per layer; 2nd layer mounted on pivoting supports
- one fixed **clamping point** mini-wagon
- first wagon features **railway coupling**
- **driving station** with unloading ramps
- loading through gantries or driving station at LWR workshop
- LWR are unloaded on site as the train drives away

VMT 400

Light motorcars

Weight
9 to 11 t

- **80 HP** enables speed up to **50 kmph** and **towing of 10 t at 50 kmph** on level
- 5.5 m frame; up to **15-seater personnel** version or **cab + 6 sqm platform for track-works** version
- 3 m wheelbase
- **4 t payload;** up to **5 t.m crane**
- hydrostatic drive
- **dual-mode version** incorporating diesel + electric *(rechargeable batteries)* drive is also available: **zero pollution and noise**

A variety of consumables, tools and accessories are available on request.

VMT 700

Maintenance motorcars

Weight
12 to 15 t

Associated products

The VTL-VTB shunters (pages 169-170) enable towing of heavy worktrains

A variety of consumables, tools and accessories are available on request.

- **128 to 240 HP** enables speeds up to **75 kmph** and **towing of 20 t at 70 kmph** on level
- 8 m frame; **25-seater personnel** version, **cab + 10.7 m² platform for track-works** versions
- **5 m** wheelbase allowing to negotiate radius of 50 m curvature
- **2 to 5 t payload; up to 7.5 t.m crane**
- hydrostatic or hydraulic transmission; up to 10 kmph optional creep speed
- **automatic brake**
- available with bolted **railway coupling**
- **dual-mode version** incorporating diesel + electric *(rechargeable batteries)* drive is also available: **zero pollution & noise**

VMT 800

Worksite motorcars

Weight
18 to 23 t

Associated products

The VTL-VTB shunters (pages 169-170) enable towing of heavy worktrains

A variety of consumables, tools and accessories are available on request.

- **180 to 380 HP** enables speeds up to **100 kmph** and **towing of 150 t at 60 kmph** or more with multiple units
- 8.5 to 10.5 m frame; **40-seater personnel** version and **15-seater cab + 16 m² platform for track-works** versions
- 4.5 to 6.5 m wheelbase
- **14 t payload; up to 14 t.m crane**
- hydro-mechanical or hydrostatic transmission; optional **creep speed**
- **dual-mode version** incorporating diesel + electric *(rechargeable batteries)* drive is also available: **zero pollution & noise**
- available with bolted railway coupling
- **VMT 863: Europe version;** wheelbase > 6 m, **100 kmph** suspension, **UIC** braking, draw-gear and coupling, **approved by SNCF**

VMT 900

Heavy-duty motorcars

Weight
22 to 30 t

A variety of consumables, tools and accessories are available on request.

- **370 to 500 HP** enables speeds up to **100 kmph** and **towing of 250 t at 60 kmph** on level and **140 t on 20‰** gradients, more when used as multiple units
- 12.4 to 14 m frame: **18 m² platform** and **15-seater cab**
- 7 to 9 m wheelbase
- **16 t payload; up to 20 t.m crane**
- hydro-mechanical or hydrostatic transmission; optional **creep speed**
- **railway braking, UIC draw-gear and coupling**
- **dual-mode version** incorporating diesel + electric *(rechargeable batteries)* drive is also available: **zero pollution & noise**
- 900 series are **UIC class** motorcars

Associated products

The VTL-VTB shunters (pages 169-170) enable towing of heavy worktrains

VMB

Heavy-duty motorcars with bogies

Weight
40 to 50 t

A variety of consumables, tools and accessories are available on request.

- **640 to 900 HP** enables speeds up to **120 kmph** and **towing of 400 t at 60 kmph** on level or **160 t at 20 kmph on 25‰** gradients, more when used as multiple units
- 18 to 23 m frame assembled on 2 articulate bogies, offers many **possibilities of configurations**
- 14 m wheelbase
- 75 m minimum curve radius
- 2 driving positions secure a perfect visibility in the bi-directional travel
- **30 t payload; up to 22 t.m crane**
- complete hydrostatic drive to the 4-axle; **0 to 10 kmph creep speed**
- railway coupling and braking system
- VMB series are **UIC class** motorcars

V2R 700

Maintenance road-rail vehicles

Weight GWVR up to **16** t

A variety of consumables, tools and accessories are available on request.

Specially designed for inspection or track and/or catenary works

- **4x2** or **4x4** on RENAULT TRUCK frame/cab base or other brand on request
- vehicles preserve the entire basic characteristics of the road rigid
- for all type of track gauge
- **power: 280 HP**, Turbo Diesel engine conforms to the last road gas emissions standards
- **railway transmission** *(following track gauges)*:
  - **by** rail/tyres **friction**
  - **by axles/bogies** powered by hydraulic motors
- **maximum speed:**
  - on road: **90 kmph*** - on rail: from 0 to **40 kmph***
- working creep speed
- minimum curve radius : up to **17 m**
- Standard driving cab for **3 persons**

*following country standards

V2R 800

Worksite road-rail vehicles

Weight **18** or **19** t of GWVR

A variety of consumables, tools and accessories are available on request.

*following country standards

Specially designed for inspection or track and/or catenary works

- **4x4** or **4x2** on RENAULT TRUCK frame/cab base or other brand on request
- vehicles preserve the entire basic characteristics of the road rigid
- for all type of track gauge
- **power: 430 HP**, Turbo Diesel engine conforms to the last road gas emissions standards
- **railway transmission** *(following track gauges)*:
  - **by** rail/tyres **friction**
  - **by** drums/tyres **friction**
  - **by axles and/or bogies** powered by hydraulic motors
- **maximum speed:**
  - on road: **90 kmph*** - on rail: from 0 to **40 kmph***
- **working creep speed** - possibility of dual-mode's use on electric batteries *(up to 5 kmph)*
- minimum curve radius : up to **17 m**
- Standard driving cab for **3 persons**

V2R 900

Weight GWVR: 26 t

A variety of consumables, tools and accessories are available on request.

Heavy-duty road-rail vehicles

Specially designed for inspection or track and/or catenary works

- **6x2** or **6x4** on RENAULT TRUCK frame/cab base or other brand on request
- vehicles preserve the entire basic characteristics of the road rigid
- for all type of track gauge
- **power: 480 HP**, Turbo Diesel engine conforms to the last road gas emissions standards
- **railway transmission** *(following track gauges)*:
  - **by** rail/tyres **friction**
  - **by axles/bogies** powered by hydraulic motors
- **maximum speed:**
  - on road: **90 kmph*** - on rail: from 0 to **40 kmph***
- minimum curve radius: **60 m**
- Standard driving cab for **3 persons**

* *following country standards*

P2R 200 E

Weight 6.5 t

A variety of consumables, tools and accessories are available on request.

Road-rail shunting vehicle

Bidirectional electric vehicle specially designed for shunting operations

- **electric motor** enables towing on straight and level tracks **up to 245 t at 5 kmph**
- batteries powered
- **electro-hydraulic transmission** on the four tyre wheels directly on rails
- collapsible lorries with rail wheels
- **4 wheels drive - 2 wheels steering**
- minimum curve radius: **2.75 m**
- 1 driving post with steering wheel or radio remote control
- 1 compatible Network coupler *(to be defined with Customer)*
- **autonomy: 8 h**
- **P2R 200 D:** Diesel version with hydrostatic transmission is available on request

VTL 200-500

Shunters with axles

Weight *VTL 200 = 25 t*
VTL 500 - 500H = 40 t

A variety of consumables, tools and accessories are available on request.

- **hydrodynamic** (**VTL 200**), **Hydrostatic** (**VTL 500H**) or **VOITH-TURBO** (**VTL 500**) **transmission** type on the two axles
- **176 kW** (**VTL 200**) or **348 kW** (**VTL 500** and **VTL 500H**) Turbo Diesel engine enables towing on straight and level tracks up to **630 t at 18 kmph** (**VTL 200**), **1,800 t at 12 kmph** (**VTL 500H**) and **1,800 t at 14 kmph** (**VTL 500**) and more in Multiple Unit
- wheel tractive force: **82 kN** (**VTL 200**), **108 kN** (**VTL 500H**) and **110 kN** (**VTL 500**) *with rail minimum friction 0,33*
- minimum curve radius: **25 m** (**VTL 200**) and **50 m** (**VTL 500H** and **VTL 500**)
- visibility conforms to UIC rules
- 1 control panel for each working direction
- Network couplers and automatic braking witch includes Main Pipe and Braking Pipe with connections on each headstock

VTB 1000

Shunters with bogies

Weight 76 t

A variety of consumables, tools and accessories are available on request.

- **Hydrostatic** (**VTB 1000H**) or **VOITH-Hydrodynamic** (**VTB 1000**) **transmission type** on the two bogies
- **750 kW** Turbo Diesel engine enables towing on straight and level tracks up to **1,800 t at 24 kmph** (**VTB 1000H**) and **1,800 t at 24 kmph** (**VTB 1000**) and more in Multiple Unit
- wheel tractive force: **211 kN** (**VTB 1000H**) and **245 kN** (**VTB 1000**) *with rail minimum friction 0,33*
- minimum curve radius: **25 m** (**VTB 1000H**) or **30 m** (**VTB 1000**)
- visibility conforms to UIC rules
- **1 cab at each end** of the vehicle including on each 1 control panel
- Network couplers and automatic braking witch includes Main Pipe and Braking Pipe with connections on each headstock
- locomotive conforms to EN 14033 1/2/3 standards

7 HANDLING

OF RAILS:

- track positionning: *LWRs* **pullers**
  Rail track gauge **narrowing device**
- lifting: **Rail changers**
  Lifting trolleys
  Rail loaders
  Grabs and girders *for excavators*
- LWRs unloading: *Road-rail* **trailer**
  System *to tow & unload rail*

OF SLEEPERS:

Forks and beams for excavator

OF BALLAST:

Buckets for excavator

ATR

Rail pullers

Weight

A variety of consumables, tools and accessories are available on request.

- **double acting hydraulic ram** clamping on the fixed rail
- 1.5 to 3 m long cable (rigid rod on **ATR 20**) clamps onto loose LWR
- 3 models **break down** into components **carried by 2 men**:
  - **ATR 6: 6 t** for up to **120 m long LWR** can be powered from the **MPR** rail threader
  - **ATR 12: 12 t** for up to **150 m long LWR**
  - **ATR 20: 20 t** for up to **300 m long LWR**
- double flow manual or motorised pump, **ATR 6:** 100 bar; **ATR 12:** 390 bar; **ATR 20:** 450 bar

ARR 531

Weight 25 kg

Rail track gauge narrowing device

A variety of consumables, tools and accessories are available on request.

- **compact** design with carrying handles for **ease of handling**
- rollers and pushing handles allow the unit to be **moved along the track**
- pulling cylinder and 700 bar manual pump
- **adjustable thrust for accurate gauge setting**

Associated products

a similar device is available on the LFT sleeper fixing machine (page 121)

PSR

Rail changers

Weight 110 to 145 kg

A variety of consumables, tools and accessories are available on request.

- **for lifting and moving short lengths of rail** laterally or longitudinally
- **1 t** capacity **manual winch** with brake and self-clamping roller grip
- 2 to 3 m beam for slewing of the rail
- 2 lateral supports provide **adjustment of the beam height** from 920 to 1,320 mm
- carrying and pushing handles
- double flange rollers for running on rail or rubber wheels for running off track
- **breaks down into components easily carried** by 2 men
- **PSR-E :** electric version

PMR

Aluminium rail changers

Weight *57 kg (heaviest component: 35 kg)*

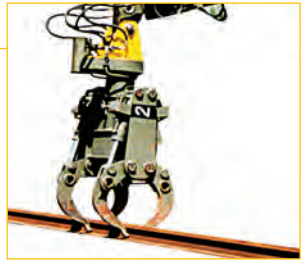
A variety of consumables, tools and accessories are available on request.

- **light and sturdy** design for replacing rails, crossings, switchblades and associated components
- **1 t capacity manual winch with rail clamp**
- traversing beam:
  - **PMR 422** = 2 m of length
  - **PMR 423** = 3 m of length
- **the leg is vertically adjustable** over a 400 mm range
- roller for moving the unit on rail
- breaks down into components **easily carried by 1 man**

PAR

Hydraulic rail grab

an attachment for KGTs (pages 104/5/8);
can also be fitted to other road/rail excavator types subject to specification.
Warning this attachment has restrictions in use, contact us.



For lifting and positioning rails:

- **3.5 t capacity**
- **2 pairs of hydraulic clamps** provide **safe** handling for flat bottom rails up to 18 m
- enables the **precise positioning** of the rail onto the sleepers
- to be used with 360° hydraulic rotor
- special hydraulic clamps for grooved rails are available

OMR

LWR roller clamp

an attachment for KGTs (pages 104/5/8);
can also be fitted to other road/rail excavator types subject to specification.

For lifting and positioning LWRs:

- **2 t capacity**
- handling of the rail by **4 bearing mounted rollers; features a quick cam locking mechanism**
- the exclusive design allows the clamp to **move along the rail and the welds** whilst laying the LWR into its required position
- **OMR:** manual version - weight: 44 kg
- **OMR H:** hydraulic version - weight: 55 kg
- a wide **range of other models** with scissor grip are available for lifting Vignole or grooved rails

Associated products

2 LWRs are ideally positionned quickly and simultaneously by the MPR (page 118)

CR

Rail loaders

Weight *250 to 850 kg according to model*

A variety of consumables, tools and accessories are available on request.

- for loading and unloading rails **from flat wagons**
- use one pair or more
- **manual or motorized winch** (petrol or electric), 1 t capacity, braking device, scissor rail clamp; crank control of lateral displacement
- radio control (depending on version)
- 3 models:
  - **CR: fixed lateral jib** secured onto the wagon side, 2,925 mm boom with foldable end
  - **CR-FP: pivoting central jib to work on either side;** 2,400 mm boom
  - **CR-A: fully automated version operated from the ground;** 2,950 mm boom with foldable end; optional lighting.

EMD

Road-rail trailer for LWRs unloading

Associated products

the transport train (page 158) also features LWRs unloading

A variety of consumables, tools and accessories are available on request.

- **compact** unit, can be **towed by a truck**
- components are **quickly / easily assembled** and set on the track
- LWRs **unloading gauge is adjustable** from 500 to 2,050 mm
- 4 t capacity **lifting platform features rail guides** with 900 mm lateral displacement
- rail guiding & positioning unit fits on the LWR transport train
- continuous LWR unloading **requires only 3 operators**
- **radio controlled**
- lighting for night work
- **EMD R**: version rail only is available

STR

System to tow & unload rail

Associated products

the transport train (page 158) also features LWRs unloading

A variety of consumables, tools and accessories are available on request.

New 5-piece concept for laying Long Welded Rails (LWR) on new track:

1- ECTR: Gantry with caterpillar tracks to tow and unload rails
2- RGW: Guide rollers mounted on wagon
3- LGR: Rail guide trolley
4- LER: Rail end trolley *(positioned at the end of the rails)*
5- Adjustable **rollers** for rails

- **Output: 1800m/day**
  8 hour working shift with 432 meters lengths of LWR - Output can change according to work site conditions
- **Simultaneously laying 2 x LWR** to the right gauge
- **Safe handling** of rails
- **Accurate and direct positioning** on sleepers
- **Maintains the integrity** of the rails and sleepers.

OFF

Front fork

an attachment for the KGTs

(pages 104/5/8); can also be fitted to other road/rail excavator types subject to specification.

To handle pallets and stacked sleepers:

- up to **2 t capacity**
- **up to 4 m handling height**

OFT

Sleeper fork

an attachment for the KGTs

(pages 104/5/8); can also be fitted to other road/rail excavator types subject to specification.
Warning this attachment has restrictions in use, contact us.

8 claw reinforced fork, one of our client's favorite attachments with the KGTs:

- able to handle up to **15 wooden sleepers** of the heaviest types as well as **logs** or bulk wood
- the claws also enables the **handling of one rail** and its precise positioning
- to be used with 360° hydraulic rotor

PCT

Sleeper beam with chains

an attachment for KGTs (pages 104/5/8); can also be fitted to other road/rail excavator types subject to specification.

For lifting and positioning sleepers:

- handling of **all types of sleepers** using **chains and hooks** suited to the fastenings
- **up to 10 concrete sleepers 250 kg** each can be handled
- to be used with 360° hydraulic rotor

Associated products

the PTH with travelling beam are used for laying a large quantity of sleepers (page 115)

PTV

Hydraulic beam for sleepers

an attachment for KGTs (pages 104/5/8); can also be fitted to other road/rail excavator types subject to specification.

For lifting and positioning sleepers:

- with hydraulic grips to handle **all types of sleepers**
- variable spacing is available for precise positioning of the sleepers
- **Capacity:**
  - **simple version:** up to **8 concrete sleepers** of 250 kg each
  - **variable spacing version:** up to **5 concrete sleepers** of 250 kg each
- to be used with 360° hydraulic rotor

Associated products

the PTH with travelling beam are used for laying a large quantity of sleepers (page 115)

Warning these attachments have restrictions in use, contact us.

OBF

Front buckets

attachments for KGTs (pages 104/5/8); can also be fitted to other road/rail excavator types subject to specification.

To handle granulated materials as well as ballast:

- up to **1,000 l capacity**
- **up to 1,500 mm wide** buckets
- maximum handling height: 3.5 m

OBP

Clamshell buckets

attachments for KGTs (pages 104/5/8); can also be fitted to other road/rail excavator types subject to specification.

A wide range of clamshell buckets available for the handling of materials as well as ballast:

- **50 to 900 l capacity** covers a wide range of requirements
- **narrow versions** are available **for clearing the ballast crib**
- to be used with 360° hydraulic rotor

8 LIGHTING

- Floodlights
- Generators
- Standalone portable & rechargeable tracksite floodlight

PCB

Floodlight

Weight 40 kg

A variety of consumables, tools and accessories are available on request.

Sturdy, waterproof and adjustable

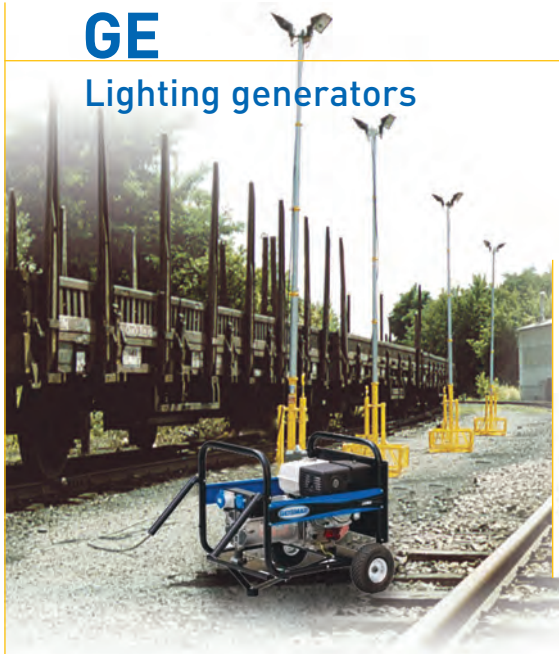
- **PCB:** ballast basket,
  pneumatic telescopic mast **extends up to 6 m,**
  15 m cable,
  2 halogen floodlights 1,000 W or 500 W

GE

Lighting generators

Weight according to model

A variety of consumables, tools and accessories are available on request.



Various models/power are available
to meet your requirements, e.g.:

- Standard electrical power: from **2 kVA**
- **230 V 50 Hz** regulated single phase
- **2 outlets** with or without switch
- Portable or wheel barrow-mounted

PCD

Weight
- PCD 1: ≈ 10 kg
- PCD 2 : ≈ 25 kg

A variety of consumables, tools and accessories are available on request.

Standalone portable and rechargeable tracksite floodlights with LED

Rechargeable, portable, sturdy, waterproof and adjustable

- **lighting power** depending on use *(high flux LED)* :
  - **PCD 1** : 1,500 to 3,000 lumens
  - **PCD 2** : 500 to 6,000 lumens
- LED **lifetime** = 50,000 h
- **rechargeable battery** with carrying handle used as base, **autonomy** : - **PCD 1** : 15 to 8 h
  - **PCD 2** : 40 to 7 h
- telescopic mast: - **PCD 1** : up to 0.82 m
  - **PCD 2** : up to 1.80 m
- optional: lighter charger for 12/24 V

9 SAFETY & RESCUE

- **SAFETY:** *Warning* **devices**
- **RESCUE:** **Rescue trolley** *for damaged bogie*
  Hydraulic rerailing equipment
  Equipment for personnel: *trolleys with stretchers*
  Light set *for emergency interventions*
  Fire fighting **road-rail vehicles**

AVS 1-2

Pneumatic warning device

Weight AVS 1: 14 kg
AVS 2: 26 kg

A variety of consumables, tools and accessories are available on request.

Powerful warning systems for worksite protection

- over **110 dB at 5 m**
- 307 Hz tone
- manometer, safety and non-return valves are standard features for both models
- 2 models:
  - **AVS 1: single tone warning device; portable model with shoulder strap,** foot-operated pump and **7 l air tank**
  - **AVS 2: dual tone warning device; wheel barrow frame** with hand-operated pump and **10 l air tank; 387 Hz additional tone;** optional on-rail guiding roller

AVS 3-4

Lightweight warning device

Weight *AVS 3 ≈ 220 g*
AVS 4: 1 kg

A variety of consumables, tools and accessories are available on request.

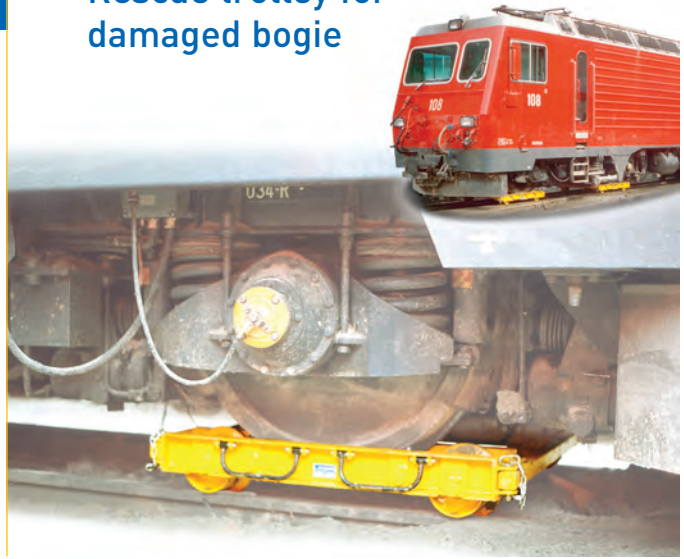
Very light warning system for worksite protection

- 2 models:
  - **AVS 3: call horn**
  - **AVS 4: sound case;**
    very light and powerful warning device of 115 dB, providing up to 300 sounds per charge;
    works with a reserve of air under pressure;
    rechargeable with any source of compressed air

C2D

Rescue trolley for damaged bogie

Weight
± 220 kg



- **for towing rolling stock** with damaged bogies
- 2 sturdy wheel carriers with adjustable blocks, suitable **for wheels of up to 700 to 1,260 mm Ø**
- 2 connecting frames secure the wheel housing with quick- release type pins
- 190 mm Ø wheels
- 4 carrying handles
- **22.5 t/unit useful load**

A variety of consumables, tools and accessories are available on request.

MDR

Hydraulic rerailing equipment

A variety of consumables, tools and accessories are available on request.

- **self-contained** hydraulic pack with 4-outlet control
- telescopic rams can **lift rolling stock of up to 240 t** weight
- **slewing carriages** feature a take-up system and operate on transfer beams **for rerailing** operations
- 3 articulated cylinders and ladder-type belts are used **to right vehicles** that have derailed on to their sides
- hydraulic cutting tools are also available for emergency and extrication operations

CH

Trolleys for the emergency services

Weight
≈100 kg

A variety of consumables, tools and accessories are available on request.

A wide range are available to meet all rescue operations

- **steel or aluminium** decks and frames, one-piece models and multi piece models for easy disassembly
- wheels and rollers from 58 to 280 mm Ø, made of steel, aluminium or nylon, insulated or not
- **up to 5 m²** standard **decks**
- **up to 3,000 kg payload**
- with single or double brake; negative brake versions also available
- special versions: with gas bottle racks, stretcher variants, motorized version with self-contained power sets, guided versions for trackway systems
- heaviest component:

MINI 4-4 FF + MINI 1t

Lightweight vehicle for emergency purposes

Weight
Mini 4-4 FF ≈ 295 kg
Mini 1t ≈ 150 kg

Power source
• petrol

A variety of consumables, tools and accessories are available on request.

Transport of emergency equipment and evacuation of wounded persons

- welded lightweight tubular steel frame
- aluminium wheels, 1,435 mm gauge *(others on request)*
- 4-stroke petrol engine; **4 HP** power with centrifugal clutch, disc brakes
- ≈ 4 h autonomy *(≈ 40 km)*
- speed: 25 kmph
- **consisting of:**
  - **MINI 4-4 FF : 4-seater,** gearbox with bi-directional driving, tools tray and lighting pack available
  - **MINI 1t : 2 towed or pushed trailers,** mechanical parking brake, maxi load capacity 500 kg/trailer

V2R LAI

Fire fighting road-rail vehicles

Weight
V2R 500 LAI ≈ 2.7 t
V2R 830 LAI ≈ 26 t

A variety of consumables, tools and accessories are available on request.

V2R 500 LAI

V2R 830 LAI

Range available from 2.7 to 26 t vehicles

- power: 130 to 370 HP
- **platform or fire fighting equipments** according to requirements
- 2 to 8 seats according to vehicle
- Various transmissions available according to vehicle
- **assistance for driving and on/off tracking provided by cameras** according to vehicle
- speed: **up to 40 kmph** bi-directional **on-rail** according to vehicle and local regulation

AJ-459 AM
GEISMAR

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A wide range of powered and hand tools dedicated to track maintenance

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From traditional devices to electronic recording systems for the control of track and OHL

OHL laying & maintenance

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- Road-rail vehicles
- Catenary tools • OHL components

9

The GEISMAR company is dedicated to excellency

The GEISMAR quality system is certified since 1997.

To fully comply with the latest quality requirements, GEISMAR has made evolve this quality system toward a complete Quality Management System according to the ISO 9001-2008 standard.
This new system includes now all the research development and design activities and is certified since 2003.

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