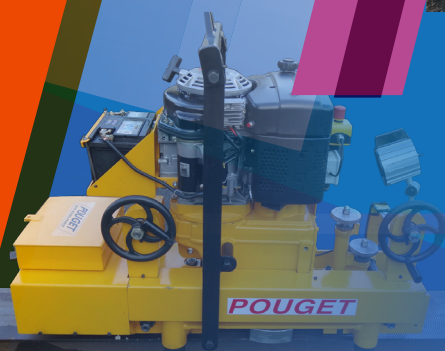




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MACHINES FOR TRACK WORK



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HYDRAULIC RAIL REPROFILING UNITS (For Rail Corrugation)

USE : High Efficiency Complete Re-profiling of the rails (Worm rails, Rail Corrugation)

ADVANTAGES : This Automatic Unit gives a perfect quality and even results for grinding and re-profiling works on the rails :

- Running surfaces of the rails,
- Gauge Sides of rails, and internal radius of Head-Rails
- Rail Corrugation (short and long corrugations)
- Head-checking

These machines can be supplied in 3 versions :

MINI GRINDER : 4 x Ø 200 mm + 2 x Ø 150 mm..... **N-320-H Model**

MEDIUM GRINDER : 8 x Ø 200 mm + 2 x Ø 150 mm..... **N-322-H Model**

MAXI GRINDER : 12 x Ø 200 mm + 2 x Ø 150 mm..... **N-323-H Model**

MAIN CHARACTERISTICS

- Diesel-Hydraulic Generator, on Platform Trolley (95-140 kW), self propelled in 2 Directions.
- Weight as a Version : 1.8 to 3.5 tons

N-322-H Model



OPTIONAL EQUIPMENTS

REFERENCE

- BIN**.....CABIN with air-conditioned control + phonic insulation
- SH**.....SOUNDPROOF Device, with sparks Shield
- EXT**.....FIRE SUPPRESSION Device, with water Tank
- DC**.....DUST COLLECTION Device, for emery and scorias
- QS**.....RUNNING on Track at 60 Km/H and grinding at 10 km/H
- CR**.....POSSIBILITY to run with curve radius of 25 m.
- MB**.....COMMUNICATION Mobile, digital
- TR**.....TRAMWAY Option
- PE**.....LIGHTS for night works

STARTING AND TRAINING : on site by our Technician Agents.

GRINDING-WHEELS : ▷ Ø 200 mm - Ref. **1039-G**
▷ Ø 150 mm - Ref. **1039-A**



ELECTRICAL RAIL REPROFILING UNITS (For Rail Corrugation)

USE : High Efficiency Complete Re-Profiling of the rail du rail. (Worn Rails, Rail Corrugation, etc.)

ADVANTAGES : This Automatic Unit gives a perfect quality and even results for grinding and re-profiling works on the rail :

- Running Surface of the rails
- Gauge-side of rails and Internal Radius of Head-Rails

The **N-320** Modern Machine includes :

- **4 Ø 200 mm Grinding Wheels** for the Running Surface of the rails (with Slant Setting).
(For Tramway Ø 100 mm Grinding Wheels).
- **2 Ø 150 mm Grinding Wheels** for the Gauge-Side of rails and Internal Radius of Head-Rails).

MAIN CHARACTERISTICS

- Diesel Generator on Platform Trolley
- Self propelled in 2 directions = 4/6 Km/H with Automatic Speed Variator.
- Weight of the N-320 Machine without Generator = 1800 Kg / Weight of the Generator on the Platform Trolley = 2400 Kg

MINI GRINDER = 4 x Ø 200 mm + 2 x Ø 150 mm.....**N-320**

Other Models :

MEDIUM GRINDER = 8 x Ø 200 mm + 2 x Ø 150 mm.....**N-322**

MAXI GRINDER = 12 x Ø 200 mm + 2 x Ø 150 mm.....**N-323**

See Page 1/1 for the Details of the Hydraulic Models



Re-profiling Unit Machine N-320
working in South Korea



OPTIONAL EQUIPMENTS

- SPARE PARTS (Tech. Spec. NO. 2/2) : ▷ Ø 200 mm Grinding Wheels - Ref. **1039-G**
▷ Ø 150 mm Grinding Wheels - Ref. **1039-A**
- Lights for Operating during Night Works - Ref. **PE**
- Protector Cover the Operating Agent - Ref. **BP**
- Fire-Extinguisher - Ref. **EXT**
- TRAMWAY OPTION - Ref. **TR**



PORTABLE GRINDERS FOR RAIL CORRUGATION

This Machine allows the Grinding of the Rail Corrugation (The Guiding Database being the up-running Surface of the Waves Rails).

It is equipped with Different Ø cup Grinding Wheels, as the Type of rail to grind.

TECHNICAL CHARACTERISTICS

ENGINE : HONDA 4-stroke Petrol Engine - GXV-160 Model
Displacement 163 cm³ - 4.3 HP (3.2 kW).

CUP GRINDING WHEELS : 4 Grinding Wheels Diameters can be fitted on this Machine.

MachinesModels	Ø Grinding Wheel (mm)
N-16-A	52 (for Tramway Track)
N-16-B	72
N-16-C	115
N-16-D	150

GUIDING OF ON RAILS : 2 Ramps equipped with 12 rollers each, mounted on Water-Tight Ball Bearings, circulating on the Running Surface of rail to grind.
4-Side Guide Rollers on the Internal Sides of Rails.

GRINDING ADJUSTMENT : Inclination Adjustment of Grinding Wheel on the Transversal Bar-Guiding.
Depth Adjustment of the Grinding by a Driving and Screw Control on one of the both Guiding Ramps.

Net Weight : 58 Kg





RAIL HEAD SCRUBBER MACHINES

USE: To descale new rails before stepping-up (scale acts as an insulator)

ADVANTAGES: Simple and efficient machines to remove scale (carbon deposits) on new rails.

This Portable Machine is equipped with :

- 1 Sensitive Lowering Adjustment Device
- 1 Folding Wheel

It can be used as :

RAIL HEAD SCRUBBER MACHINE

Equipped with :

1 Descaling Metal Brush Ø 120 mm made in hardened Steel Wires

4-Stroke HONDA Petrol Engine

Triphase 220/380 V Electric Motor

Weight : 54 Kg

(On request the machine can be supplied with a trolley on the opposite rail)

Equipped with :

1 **Lamella Brush** Ø 250 mm Rod

4-Stroke HONDA Petrol Engine (4 kW)

Triphase 220/380 V Electric Motor

Weight : 47 Kg

PORTABLE RAIL GRINDING MACHINE

Equipped with :

1 **Flat Grinding Wheel** Ø 150 mm (Other Ø on request)

4-Stroke HONDA Petrol Engine 4 kW

Diesel (Motor on request)

Triphase 220/380 V Electric Motor

Weight : 54 Kg

(Specify the type of rail to grind)

NB-1D Model



NB-1D

NB-1DE

NB-2D

NB-2DE



NB-1ME Model

NB-1M

NB-1MD

NB-1ME

OPTIONS

- Guiding-Ramps of 20 Rolls (for Grinding Rail Corrugation) - Ref. **N-16** (Tech. Spec. No. **3/1**)
- Lightings for Night Works - Ref. **PE**
- Tramway Guiding Rolls - Ref. **GT**
- Grinding Wheels - Tech. Spec. No. **2/2**
- Brushes - Tech. Spec. No. **1/2**



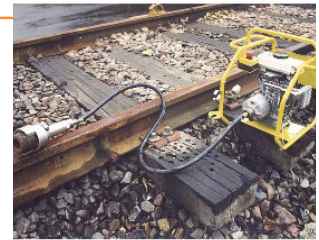
PORTABLE THERMIC RAIL GRINDERS

USE: Grinding after welding, rail reprofiling and switch and crossings ...

ADVANTAGES: Reliable, tough and silent machines providing excellent quality finishing works.

BM-100 Rail Grinder

- HONDA 4-stroke Petrol Engine 2.1 kW
- Flexi-Horse, length. 1.50 m
- Ø 90 and 72 mm Grinding Wheels (Cup Wheels)
- Ø 80 and 125 mm Grinding Wheels (Flat)
- Finishing Grinding after rail welding
- Weight = 23 Kg



MP-10 Rail Grinder

- ROBIN 2-stroke - 2.4 kW - 78,5 cm³
- Flexi-Horse - Length 1.50 m
- Ø 50 and 72 mm Grinding Wheels (Cup Wheels)
- Weight = 10 Kg
- Grinding of Fishplate Joints with Disks (ref. 1039-M5 / 1039-H / 1039-P)
- Options : with Electric Motor 1300 W (ref. **MPE-10**)



MP-120 Rail Grinder

- HONDA 4-stroke Petrol Engine - 4.4 kW
- Flexi-Horse - Length 3.50 m
- Cup Wheel Ø 150 mm
- Rail Grinding Finition after rail welding
- Weight = 59 Kg



MP-121 Rail Grinder

- Manual Grinding Rail Welded, allowing to insure a perfect Grinding Rail Finition and Levelling.
- HONDA 4-stroke Petrol Engine - 8 HP - 6 kW
- Steel Frame with inflatable Wheel
- Insulating Sheathed Flexible Transmission, Length 4.5 m
- Quick coupling for Grinding Wheels, Handling
- Ø 125 or 150 mm Grinding Wheels (Cup Wheels)
- Ø 150 or 200 mm Grinding Wheels (Flat Wheels)
- Driving Control for starting or stopping of Grinding Wheel from the tool.
- Rotating Speed of the Grinding Wheel : 4800 rpm
- Weight : Machine 57 Kg / Flexi-Horse 28 Kg





RAIL PROFILING GRINDERS (N-1 / N-12)

USE: Grinding after Alumino-thermic welding of rails.

ADVANTAGES: Grinding after Reprofilng of rails or Switches and Crossings.

N-1 PROFILE RAIL GRINDER

- Portable, to grind the rail 100 RE-90 R - UIC-54 after aluminothermic welding
- With BERNARD Petrol Engine 7 HP - 4-stroke
- Inclination possible from the horizontal to vertical position
- Total swiveling range of the grinding unit is more than 180°
- Grinding Wheel Ø 150 mm x 75 mm - Ref. 1039-B
- Special Frame Construction with full view of the grinding Surface Light Weight System consisting of combined support and guide rollers to hold the machine against the rail when grinding in horizontal position
- Rotating Speed of the Wheel : 4 000 rpm
- Centre-to-centre Guide Runners : 1 m.
- Grinding Accurate : ± 0.1 mm
- Weight = 68 Kg



N-12 PROFILE RAIL GRINDER, with Flexible

- With Flexi-Horse, length 3.5 m equipped with :
 - ▷ Ø 150 mm Cup Wheel (option : 125 mm)
 - ▷ or Ø 150 or 200 mm Flat Wheel

This Machine is equipped with :

- 1 Petrol Engine 7HP (4 stroke or 2 stroke)
- 1 Flexi-Horse, length 3.50 m with Ø 150 mm Flat Wheel
- 1 Quick-Assembly Union between the Flexi-Horse and the Rail Grinding Machine.
- Weights : Machine 58 Kg / Flexi-Horse 15 Kg



OPTION

with Electric Motor 4 kW - Ref. **N12-E** - Weight : 57 Kg



ELECTRIC RAIL GRINDERS (230 V - 50 Hz)

USE: Finishing Grinding after Welding and Re-loading of rails Switches and Crossings.
(It is forbidden to use these Grinders with the rain)

ADVANTAGES: Reliable, Strong and Silent.

NP-5 PORTABLE RAIL GRINDER MACHINE

- 2500 W - 230 V - 50 Hz
- Ø 115 mm Cup Grinding Wheel (Ref. 1039-K)
- Weight = 6 Kg

MAIN USE

- Finishing Grinding after Aluminothermic Welding.



NP-17 LIGHTWEIGHT PORTABLE RAIL GRINDER

- 2600 W - 230 V - 50 Hz
- Ø 115 mm Cup Grinding Wheel (Ref. 1039-K)
- Centre-to-centre Guide Runners : 750 mm
(all Other Dimensions on request)
- Weight = 35 Kg

MAIN USE : For rail levelling (Rail Corrugation) and connecting at Switches and crossings after re-loading.



MPE-10 PORTABLE RAIL GRINDER

- 1300 W - 230 V - 50Hz
- Ø 72 mm Cup Grinding Wheel (Ref. 1039-D)
- Weight = 2.3 Kg

MAIN USE : for Rail Grinding Finition and for Joints and Welding Rectification, as well as Switches and Crossings.



OPTIONS

- **Grinding Wheels** - Tech. Spec. NO. **2/2**
- **Portable Generating Sets** - Tech. Spec NO. **24/1**
- **Welding Rules** - Tech. Spec. NO. **2/6**
- **Thermic Rail Grinders** - Tech. Spec. NO. **5/1 and 6/1**

Nota : Do not use these Rail Grinders with the rain for your SECURITY



COACHSCREWING AND FISHBOLTING MACHINES

USE: Tighten Coachscrews - Drive Bolts and Fishplates Bolts.
(Track renovation and Maintenance)

ADVANTAGES: Reliable and Tough Machines.

LIGHTWEIGHT MAINTENANCE COACHSCREWING MACHINE **S5P** (Details on Tech. Spec. 11/1)

- on Battery 18 V - 4 Speed
- 90 to 900 da.Nm
- **Weight 35 Kg**



HIGH EFFICIENCY COACHSCREWING MACHINE **J-10** (1 Speed)

- Petrol (or Diesel) Engine 4 kW
- Max Torque = 50 daNm - Accuracy ± 2 da.Nm
- Range of 4 Rotation Speed - Weight 97 Kg



OPTION: COACHSCREWING-FISHBOLTING MACHINE **J10-B** (2 Speed) - Weight = 112 Kg

HYDRAULIC COACHSCREWING MACHINE **T-11** - Details on Tech. Spec. No. 9/1

- Petrol (or Diesel) Engine 4 kW
- Max Torque = 85 da.Nm - Accuracy ± 2 da.Nm
- Weight = 86 Kg



OPTION: Motorized Machine 6.5 kW - Torque = 100 da.Nm

Fishbolting Head - Ref. **BT-11**

PORTABLE IMPACT WRENCH **S1P** (Details on Tech. Spec. 10/1)

- With reverser of direction
- 2-stroke Petrol Engine - Power 1.7 kW - 46 cm³
- Max Torque = 100 da.Nm
- Weight = 19 Kg



OPTIONS

- Impact Wrench S1P on Trolley - ref. **S4P** - (Weight 35 Kg) - Tech. Spec. NO. 10/1
- All Accessories - Tech. Spec. Nos. 8-1/2 and 8-2/2
- Sockets - Tech. Spec. No. 3-2/2

Manual COACHSCREWING MACHINE **HM**

- With reverser of direction
- Max Torque 40 da.Nm
- With an Electrical insulated Trolley-Bar
- Weight : 24 Kg



OPTIONS

- Sockets (Tech. Spec. Nos. 3-1/2 and 3-2/2) - Brushes $\varnothing$ 230 mm to clean the Track
- 12 V Lighting and Fishbolting Head for **T-11** / **J-10** Machines.



HYDRAULIC COACHSCREWING MACHINE **T-11**

This Hydraulic Coachscrewing Machine is provided for all works of new tracks and Maintenance of Tracks.

It is equipped with a dial Torque Indicator, and an Hydraulic Transmission allowing to adjust the selected Tightening Torque.



- Petrol engine 4 stroke, HONDA 4.1 kW
- Speed of rotation from 50 to 170 rpm
- Tightening Torques from 50 to 850 Nm
- Net Weight : 86 Kg
- Reference : **T-11**

Option

- Fishbolting Head - Ref. **BT-11**



PORTABLE IMPACT WRENCHES

PORTABLE IMPACT WRENCH **S1-P**

- With reverser of direction
- 2-stroke **Petrol Engine** - 1,7 kW
- Max. Torque = 100 da.Nm (Adjustable at 0 to 100 da.Nm)
- Dimensions :
 - Length : 760 mm
 - Height : 350 mm
 - Width : 390 mm

Standard Drive Square : 25.4 mm - **Option** : 23 mm

- Net Weight : 19 Kg



OPTIONS

- Low-Vibration Device - Weight = 1 Kg
- Reinforced Socket for Impact Wrench treated in Special Nickel Chrome Vanadium Steel - Tech Spec. NO. **3-2/2**
- **Other ACCESSORIES** - Tech. Spec. **8-1/2** and **8-2/2**

PORTABLE IMPACT WRENCH **S4-P**

POUGET's Innovation



This Portable Machine allows to work on track through the use of **S1P Impact Wrench** and can be easily taken from the Track by one Operating Agent.

WEIGHT OF THE COMPLETE MACHINE : **35 Kg**

TECHNICAL CHARACTERISTICS

- **S1P** Impact Wrench, with a 2-stroke Petrol Engine
Power 1.7 kW - Max Torque : 100 da.Nm, Adjustable.
with reverser direction of the rotation - Square Drive 25.4 mm
(Sockets - available in all dimensions) - See the Tech. Spec. No. **3-2/2**
- **All aluminium Trolley Support**, with Pivoting Reinforced Pneumatic Shock Absorber.
Dismantable Aluminium Bar-Trolley with insulated Nylon Roller - Weight : 14 Kg

OPTION : PORTABLE ON BATTERY 18 V Coachscrewing Machine with Trolley **S5PT** (Wrench Sheet 11/1)

OPTIONS

PORTABLE ELECTRIC IMPACT WRENCHES 220 V / 50 Hz (It is forbidden to use them in the rain)

- Max. Torque 60/dN.m - Weight 8 Kg - Ref. **TBE-20**
- Max. Torque 100/dN.m - Weight 10 Kg - Ref. **TBE-30**



S5P SUPER-LIGHT POWER WRENCH ON BATTERY

This machine is super-light, and can be handled by a single Agent, since the total weight is 35 Kg.

It is especially provided for the Track Maintenance works, and to work in Tunnel (Metro), or on Standard Tracks.

It is working with battery made an **HYPER-SILENT MACHINE**, and **NO-POLLUTING**.

MAIN TECHNICAL CHARACTERISTICS

- Supply by battery 5 Ah - 18 V (with Charge Light)
- With reversing Gear
- Ø 25.4 mm Drive
- Bar-Trolley electrically insulated
- 4 Rotation-Speeds
- 15 Screwing/Unscrewing Torque Adjustments
- **NET TOTAL WEIGHT = 35 Kg**



4 SPEEDS (rpm)	TORQUES (N/m)
8	150 / 900
15	100 / 570
30	90 / 280
50	90 / 220



RAIL CUTTING AND SAWING MACHINES

USE: Cutting and sawing rails on the track or in the Site Works

ADVANTAGES: Reliable, economic Machines that are very easy and extremely safe to use.

THERMIC RAIL CUTTING MACHINE Model **TR4-14** - (See Tech. Spec. No. **14/1**)

- 2-stroke 119 cm³ Petrol Engine - 5,8 kW
- Cutting Time = 1 at 2 min. (as Hardness of Rail)
- Sound Level 102 dB(A)
- For abrasive Disk dia. 14"
- Weights : Vice 5 Kg / Motor 17 Kg
- **OPTION** : Abrasive Disk Ø 16"



ELECTRIC RAIL SLITTING MACHINE Model **TR5-14** (High Security)

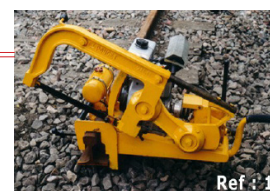
- HSS Slitting Saw - Ø 14" (Electric motor 230 V)
- Cutting Time 4/6 min. according as the hardness of the rail
- With a re-sharpening of the Slitting Saw, 60 cuttings of rail can be realized by 1 Slitting Blade.
- Sound Level = 85 dB(A) - See the details on Tech. Spec. No. **13/1**
- Weights : Motor 33 Kg / Vice = 14 Kg



RECIPROCATING SAW with Blade Machine Model **1**

- 3 HP Petrol Engine (or Electric Motor)
- HSS Blade Length 14"
- Cutting Time = 8 min.
- Weight : 78 Kg

Option : Vice for Tramway Rail



OPTIONS

- Abrasive Rail Cutting Disks - Tech. Spec. No. **2/2**
- Saw Blades - Tech. Spec. No. **6/2**
- Slitting Saw - Tech. Spec. **2/2**



ELECTRIC RAIL CUTTING MACHINE **TR5-14**®

The New Concept of Rail Cutting

.... to reduce Noise, and guarantee the Safety Working.

- | | | |
|-------------------------|---|--|
| ▪ ELECTRIC MOTOR | : | 230 V - 2 200 W - 50 Hz Single Phase |
| ▪ SLITTING BLADE | : | HSS, re-sharpenable (Ø 350 mm) |
| ▪ VICE | : | For the Standard Rail till 60 Kg/m |
| ▪ FEED | : | Manual Feeding by Wheel with a Folding Handle
(Automatic Feeding in option) |
| ▪ EFFICIENCY | : | Cutting Time = 6 -7 min. according to the Hardness of the rail |
| ▪ WATERING | : | With Water-Tank under pression (Capacity 6 l.) |
| ▪ WEIGHTS | : | Vice = 14 Kg
Motor / Saw = 33 Kg |

OPTIONS

- Automatic Feeding (**AUT**)
 - Lighting for Night Works (**ECL**)
 - Vice for Tramway Rail (**TRAM**)
-
- ▷ Sound Level = 85 dB(A)
 - ▷ Total Safety Works



❑ Ø 350 mm Slitting Blade ... Ref. **6200**

*With a re-sharpening of the Slitting Blades,
60 Cuttings of rail can be realized/ Blade.*



ABRASIVE RAIL CUTTING MACHINE **TR4-14**

An Ultra -powerful Machine for quick and accurate cut of rails.

TECHNICAL CHARACTERISTICS

- 2-stroke Petrol Engine - 119 cm³ - **POWER 5.8 kW**
- Steel Clamp with Spring for rails upto UIC-60
- Possibility to reverse the Engine to finish the cut
- Automatic earthing (Safety)
- Chrome-Steel Guard, Heatproof
- Air-double filtration, with decompressor
- Double-reinforced abrasive Disk Ø 350 x 4 x 25,4 mm - Ref. **6098**
- Weights : Motor 17 Kg / Vice 5 Kg
- Reference : **TR4-14**
- On request : Abrasive Disk Ø 400 mm (Machine Ref. **TR4-16**)

For Abrasive Disk Ø 14"

- Sound Level : 102 dB(A)
- Delivered in Transport wooden Case



OPTION

- **Rail Cutting Machine with Ø 400 mm Disk** - Ref. **TR4-16**
- Abrasive Disk Ø 350 mm - Ref. **6098**
- Abrasive Disk Ø 400 mm - Ref. **6101**
- Protective Gaiters - Ref. **GP-4**
- Protective Goggles - Ref. **LPR**



WOODEN SLEEPERS CUTTING MACHINE **TAB-660**

USE : To cut and saw wooden sleepers on Track or on Site-Works.

ADVANTAGES : Reliable and economical Machine easy to use for the Operating Agent in all Security.

TECHNICAL CHARACTERISTICS

- 2-stroke Petrol Engine - 91,6 cm³
- Power 5.6 kW
- With Special Chain for Hard Wooden - Ref. **CTAB**
- Length of the Chain (without the Machine) = 48 cm
- Net Weight with the Chain : 9 Kg
- Reference : **TAB-660**



OPTION

- Spare Parts : Chain of the Wooden Sleepers Cutting Machine - Ref. **CTAB**



PORTABLE RAIL DRILLING MACHINES

USE: Rail Drilling and Switches and Crossings (in place)

ADVANTAGES: Tough and Lightweight Machines.

Type	POWER Petrol Engine (kW)	Ø Max Drilling (mm)	Drilling Tool	Feed	Weight (Kg)
P-10	2.6	45	Drills (See Tech. Spec. NO. 4/2)	Manual	43
P-10A				Automatic	49
P-11	1.5	32	Twist Milling Cutter (See Tech. Spec. NO. 4/2)	Manual	18



Super- Light Rail Drilling Machine

OPTION

- 220/380 V Electrically powered drills : ▷ 3 kW - Ref. **P10-E**
▷ 1,8 kW - Ref. **P11-E**
- Vice for Standard and Grooved Rails ----- Ref. **RG**
- Horizontal Position Rule of the Machine - Ref. **R1**
- Vertical Drilling Template (to indicate us the Rail Section) - Ref. **R2** (only for P-10)



HIGH EFFICIENCY SLEEPERS DRILLING MACHINES ON TROLLEY

USE: Drilling Sleepers on track or on Work-Site
(Maintenance - Laying Switches and Crossings etc...)

ADVANTAGES: Tough, Pratical and Effective Equipment.

High Efficiency Sleepers Drilling Machine

with 1 Drilling Head

HONDA 4-stroke Petrol Engine = 3 or 4 kW

Rotation Speed : 1200 rpm

Drilling Capacity : Ø 25 mm

Weight = 77 Kg

Reference : **18-T**



Sleepers-Reamer Drilling Machines

with 2 Drilling Heads

HONDA 4-stroke Petrol Engine 4 - 6 HP

Rotation Speed : 1200 rpm

Reamer Speed : 600 rpm

Weight : 92 Kg

Reference : **18-2T**



OPTIONS

- **Drills Bits** (See Spec. Tech. No. 7/2)
- **Portable Sleepers Drilling Machine** equipped with 1 Telescopic Protective Device (Tech. Spec. No. 18/1)
- **Portable Electric Sleepers Drilling Machines - 220 V**
 - ♦ Power 720 W - Weight : 6 Kg ----- Ref. **PE-20**
 - ♦ Power 1150 W - Weight : 8 Kg ----- Ref. **PE-30**



PORTABLE SLEEPERS DRILLING MACHINES

USE: Drill Sleepers on the tracks or at Work Site.
(Maintenance - Laying Switches and Crossings, etc ...)

ADVANTAGES: Tough, practical and effective Equipments.

2-stroke Petrol Engine	SL-22	31 cm ³	190 t/min.	with Shock Absorbers	14 Kg
	SL-19	23,6 cm ³	150 t/min.	Super-Lightweight	5 Kg
	SL-21-4 (moteur STIHL)	31 cm ³	250 t/min.	in Automatic Release	11 Kg



Weight = 5 Kg

**SUPER-LIGHT
Drilling Machine**



SL-19
Weight 5 Kg - See the Details
on Tech. Spec. No. 19/1

Nota : All our Sleepers Drilling Machines can be delivered with chuck :
for **Graffenstaden Shank Ø 16 mm** or **Pouget Shank Ø 14 mm**.



SL-19 THERMIC SUPER-LIGHTWEIGHT SLEEPERS DRILLING MACHINE

USE: Drilling of Sleepers in Track, and for Maintenance Works.
(Point and Crossings, etc...)

ADVANTAGES: Very strong Machine, practical to drill into position.

2-stroke Petrol Engine - 23,6 cm³ - 0,7 kW - Speed 150 rpm.

Gasoline Tank : 0.4 l.

AUTOMATIC Clutch

REVERSIBLE ROTATION by inversion on speed reducer.

Delivered with a Chuck Carry-Drill (for the Drill - Ø 16 mm Shank)

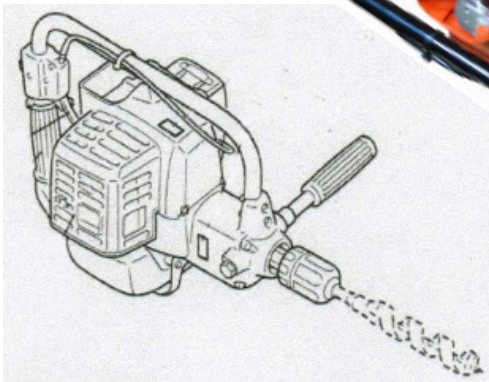
Drilling in all positions

Sound Level : 97 dB(A)

Dimensions : 42 x 32 x 27 cm

Net Weight (without Drill) : 5 Kg

Delivered **CE Certificate**



Sleepers Drills : Tech. Spec. No. 7/2

NOTA : The Reversibility of rotation allows the fast retreat of the Machine in case of blocking
of the Drill into the Sleeper : **GREATER SAFETY**



PORTABLE ADZING MACHINES

USE: Mechanical adzing works on sleepers.

ADVANTAGES: Portable Tools that are simple to use with high output.
Quality Tools giving the good results.

PORTABLE ADZING MACHINE **EP-3** (for Standard Track)

- Adzing perpendicular to the sleeper
- Horizontal adzes at a 1/20th tilted
- Carbide moulding-Lathe : 60-80-90 mm
- Vertical Stroke : 35 mm
- Transversal Stroke : 310 mm
- Weight = 16 Kg

UNIVERSAL ADZING MACHINE **EP-4**

- Perpendicular or tilted of 60° in relation to the longitudinal axis of the sleepers (Adzind for Switch and Crossings)
- Horizontal Adzes or at 1/20th tilted
- Carbide moulding-Lathe : 60-80-90 mm
- Vertical Stroke : 35 mm
- Weight = 40 Kg with 1 Wheel for the transport on the Track.

MOTOR DRIVE POWER UNIT **GEP-6** (For **EP-3** and **EP-4**)

- 4-Stroke Petrol Engine (6 or 8 kW)
- Cluth : Cogged Flat Belt
- Flexible Rubber-Horse, Length 3.50 m (or 4.50 m)
- Drives 1 or 2 Flexible Rubber-Horse
- Rotating Frame with wheel for with 1 Wheel for the transport on the Track.
- Weight = 76 Kg

ADZING SET **EP-5**

- (1x GEP-6) + (2 x EP-3)

OPTION

- Moulding-Lathes and Knives specially designed for each machine (on request)
- Petrol or Electric Engine, coupled directly to the Adzing Machine :
 - ▷ Ref. **EP-31** for EP-3 Adzing Machine
 - ▷ Ref. **EP-32** for EP-4 Universal Adzing Machine





STANDARD VT-3 PORTABLE VIBRATING TAMPING SET

The «**POUGET**» **VT- 3 Vibrating Tamping Set** is equipped with :

- ❑ **1 Generating Set** (Petrol or diesel) Triphase 220/380 V - 50 Hz

FUEL	MOTOR	POWER (KVA)	WEIGHT (Kg)
Petrol	HONDA	6	100
	LOMBARDINI	7	106
Diesel	HATZ LOMBARDINI	6	112

Various electric Tools as Portable Grinding Machines, Drilling Machines, Screwing Tools, etc. can be connected on the Vibrating Tamping Set.

All the **Generating Sets**
are mounted on 2 Rubber
Inflatable Wheels



- ❑ **4 «POUGET» PORTABLE VIBRATING TAMPERS** at individual drive, with an automatic Safety Switch 10 m. insulated protective cable. MULTIPLE VIBRATING DIRECTIONS
Unit Power : 0.77 kW - Vibrating Frequency : 50 Hz - Overcurrent discontactor 30 mA.
Vibrating Strength of Tamping-Blade : 660 Kg
Unit Weight of each Tamper : 32 Kg
- ❑ **1 ELECTRICAL BOX** with Cable of 50 m., Emergency Stop Button, Security Connections, and General Circuit Braker - Weight : 32 Kg
Noise Level for the Operating Agent : 90 dB(A)
Vibrating Level on the Operating Agents Handles : 5 m/S²
- ❑ **OPTIONS** : Vibrating Damper at the Operating Agent Handles Device - Ref. **AV-2**
Wheel-Barrow with a single Wheel to transport the Tie Tamper - Ref. **EMB**
Platform Trolley to transport the VT-3 Tamping Set on Track - Ref. **PL-VT3**

IMPORTANT : The Tip of Tamping-Blades is strenthened with Hard Metal (Hardness HRC 63/68)



«R2P» GROOVING MACHINE FOR TYRE-RAIL METRO

USE : Working of deep grooves on rail (Metro with Tyres).
Width of the rail : 230 à 280 mm (to specify)

ADVANTAGES : This Machine allows to make several different pitches: 8/10/12/24 mm

CHARACTERISTICS: **MOTORIZATION :** Electrical (Triphase 220/380 V) R2P-E
HONDA 4-stroke Petrol Engine R2P-T
Diesel HATZ R2P-D



Profil View

FEED : Automatic feeding by Drive-Rollers on the sides of Tyre-rail

TOOL : The Tool with tungsten carbide makes grooves of a radius
150 mm - Depth of passage = 2 mm

EFFICIENCY : 25-30 m / Hour (Pitch 10 mm)

LIGHTING : A Damp-proof orientable Projector lights the Working Zone

Dimensions : 130 x 46 x 81 cm

Net Weight : 320 Kg (for Width of Rail 230 mm.)

Grooving Tyre-Rail



Front View

Cable Reel 50m
Ref. RO2P-E



Nota : The Cable Reel on Rollers allows to supply electrically the **R2P-E** Grooving Machine on 50 m. Length- Ref. **RO2P-E**.

Spare PARTS : Carbide-Tool with very Hight Resistance to repeated Impacts.



RAIL LOADER ON WAGON (motorized or manual)

USE: Loading and Unloading of rails on Wagons (in Track, or in Site-Work)

MANUAL RAIL LOADER **PM-1**

- 1 Stand Support on the top of the Wagon
- 1 Adjustable Boom Arm, tilted with Folding End Section
- 1 Chain Block with Crank Handle Lifting Cable Rail Tong in forged Steel.
- 1 End Truck on Boom Arm
- Length of Boom Arm = 3.50 m
- **Lifting Capacity = 1 ton**
- Weights : Support Stand = 77 Kg / Boom Arm with Chain Block and Truck = 115 Kg
- Paint Yellow Varnish

The Stand Support may be attached with the Wagon :
- either by Bolt Clamping
- or by Chain and Tensioner (To specify)

The Width of the Wagon Platform will be specify.



MOTORIZED RAIL LOADER **PMO** (Petrol or Diesel Engine)

- Power 6 HP
- **Lifting Capacity : 1000 Kg**
- Reverser Direction and Safety Brakes
- Support Stand : 77 Kg - Motorized Boom Arm : 160 Kg



PORTABLE GENERATING SETS (230 V -50 Hz)

USE: To power Lamps , Lightings Balloons and Various Tools as Electric Grinders, etc...

ADVANTAGES: Very Tough and Efficient Machines easily transportable on Tracks.

1- 4-stroke **Petrol Engine** Generating Sets, Range : **3 at 4** hours



◀ **GE-3R**



◀ **GE-3R**

Power W	Weight of the Set Kg	References
900	13	GE-1
1400	27	GE-15
2200	36	GE-2
2900	40	GE-3
3600	46	GE-4
4200	48	GE-45
6000	80	GE-6
7000	91	GE-7

2- 4-stroke **Diesel** powered Generating Sets, Range : **4 at 5** hours



◀ **GD-4R**

Power W	Weight of the Set Kg	References
2500	56	GD-3
3500	59	GD-4
5000	82	GD-5
6000	101	GD-6

OPTIONS

All the Geneting Sets are on a chassis, and can be equipped with Wheels and Transporting Handles .
All other powers are available

- **Wheels and Transporting Handles** , add **R**

These Specifications are given for your information only
and may be technically modified and improved.



ELECTRICAL WELDING SETS **GS**

USE : Works on the Tracks.
(Re-surfacing of rails, Switched and Crossings, Various Repair Works ...)

ADVANTAGES : Professional, Strong and Economical Equipment.

Portable Lightweight Welding Sets, complete with Safety Devices, is equipped with :

- ☐ 1 Overcurrent Discontactor 30 mA
- ☐ Direct current welding

In position of Generating Set, it produces 400 V Triphase Current , and 230 V Single Phase.
Mounted on 2 Rubber Wheels for easy transportation, with Handles.
(not represented on the photo below)

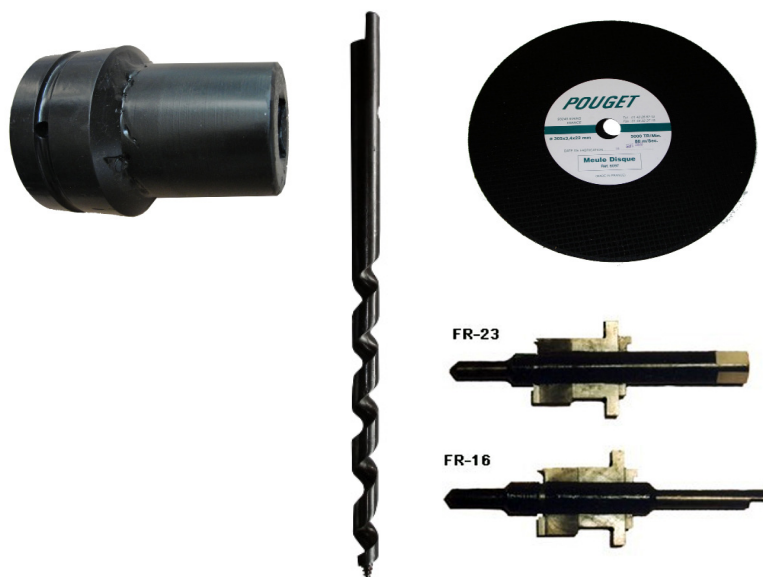
Fuel	Power (HP)	Intensity Maxi (A)	The Set POWER		Ø MAXI of Electrode (mm)	Weight of the Set (Kg)	References
			400 V Triphase (kW)	230 V single Phase (kW)			
Petrol	14	220	7.2	3.2	5	98	GS.10
Diesel	9.4	220	4.7	3.5	4	120	GS.12



OPTION

- ▷ Welding Kit with Cable 35 mm² - Ref. **KS**
- ▷ Interdifferential Safety Protection Kit for the users - Ref. **KI** , comprenant :
 - 1 Interdifferential 30 mA
 - 1 Earth Rod
 - 1 Case
- ▷ **Genearting Sets** - See Tech. Spec. Nos. 24/1

SUPPLY ACCESSORIES



■ Descaling and Lamella Brushes.....	1/2
■ Reinforced Abrasive Rail Cutting.....	2/2
■ Rail Slitting Saw.....	2/2
■ Cup Grinding Wheels.....	2/2
■ Flat Grinding Wheels.....	2/2
■ Boring Disks.....	2/2
■ Sockets for Coachscrewing, Fishbolting Machines and for Torque Wrench Control.....	3-1/2
■ Sockets for Impact Wrenches.....	3-2/2
■ Drills and Milling Cutters for Rail Drilling Machines.....	4/2
■ «Roissy» Cutter.....	5/2
■ Saw Blades (for Rails and Sleepers).....	6/2
■ Spiral Sleepers Drills (for Machines).....	7/2
■ Accessories for Impact Wrenches.....	8-1/2
■ Accessories for Impact Wrenches.....	8-2/2

ABRASIVE BRUSHES AND BELTS

USE : Descaling rails (commissioning, preparing connection welds, laying silencers in the rail web. Rail Corrugation Grinders N-16-A / B / C / D - See the Details - Tech. Spec. Sheet 25/1

ADVANTAGES : Very Effective and Quality Results.

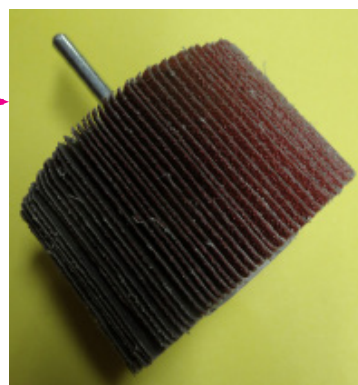
1 - DESCALING BRUSHES with Hardened Steel Wires

Ø external (mm)	References	Weights (Kg)
60	1097-R	0.4
80	1097-M	0.65
100	1097-P	0.9
120	1097	1.05
230	1099	1.6



2 - LAMELLA BRUSHES

Ø external (mm)	Width (mm)	References
60	30	1039-P
80	30	1039-Q
100	30	1039-R



ABRASIVE DISKS / GRINDING WHEELS

USE : - Grinding and Cutting rails, and Various Deburring Tasks

ADVANTAGES : These Disks and Grinding Wheels are both very safe and highly Effective.
Compliant with European Safety Standard.

1) REINFORCED ABRASIVE RAIL CUTTING DISKS (Packet of 10 pcs.)

Ø external (mm)	Thickness (mm)	Bore (mm)	Weight (Kg)	References
305	3.2	22.2	0.56	6097
305	3.2	25.4	0.55	6096
355	4	22.2	0.9	6099
355	4	25.4	0.89	6098
400	4.5	25.4	1.1	6101

2) RAIL SLITTING SAW

Ø external (mm)	Machine	Weight (Kg)	Reference
350	TR5-14	2	6200

3) CUP GRINDING WHEELS

Ø external (mm)	Thickness (mm)	Weight (Kg)	References
52	60	0,3	1039-F
72	60	0.45	1039-D
115	50	1	1039-K
150	40	1.5	1039-A
150	70	2.7	1039-B
200	60	4.7	1039-G

4) FLAT GRINDING WHEELS

Ø external (mm)	Thickness (mm)	Weight (Kg)	References
76	5	0.2	1039-M5
80	16	0.3	1039-L
100	16	0.36	1039-N
104	18	0.43	1039-E
150	25	0.75	1039-C
200	25	0.9	1039-S

5) BURING DISKS

Ø external (mm)	Thickness (mm)	Weight (Kg)	References
180	5.5	0.19	1039-H
230	3.2	0.3	1039-T
230	4.8	0.4	1039-U
230	6.4	0.6	1039-V

6098



6200



1039-G



1039-B



1039-C



1039-U



1039-A-D-F-K : 1 Central Nut 5/8"

1039-B : 4 Nuts M.8 (90 mm)

1039-G : 4 Nuts M.10 (164 mm)



SOCKETS for Coachscrewing and Fishbolting Machines Ø 23 mm Drive

USE: Tightening bolts and coachscrews. POUGET Ø standard drive 23 mm
(Other drives : see Option below)

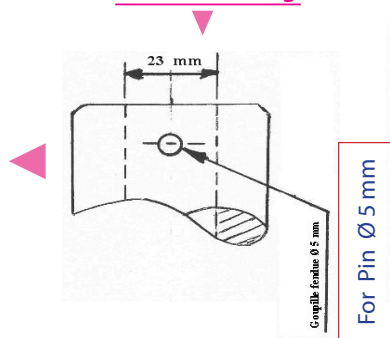
ADVANTAGES: Tools of high technical quality in case-hardened chromium-nickel steel.

Sockets for Coachscrewing and Fisbolting Machines (Driving Square 23 mm)

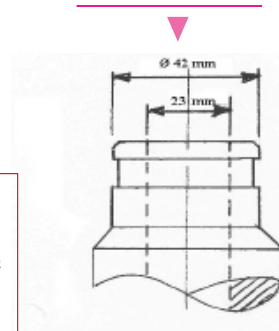
Pin attachment	4 - side for Square-Head Coachscrews (mm)							8 - side for Coachscrews		Rectangular Coachscrews		Mixed Socket Ø 23 Hex 38
	18	20	23	27	35	39	41	Ø 20	Ø 23	18 x 24	20 x 27	
Pin	136 C1	136 C2	136 A	136 A1	136 A2	136 A3	136 A4	141A	141	137A1	137A2	136
Ball	136 B1	136 B2	136 B3	136 B4	136 B5	136 B6	136 B7	141B	141C	137B12	137 B13	136B
Pin attachment	6 - side for Nuts and Bolts (mm)										12 - side for 38 mm Nuts 38 mm	Long Socket for 45 mm nuts
	30	32	35	36	37	38	40	41	42	45		
Pin	137 C1	137 C5	137 C6	137 C3	137 C4	137 C2	137B	137 B2	137 B1	137 E2	137 C2E	137E1
Ball	137 B0	137 B5	137 B1	137 B3	137 B4	137 B6	137 B7	137 B8	137 B9	137 B10	137 B11	137B14



**POUGET
Standard Driving**



Ball Attachment



All our Sockets are treated in Special Nickel-Chrome Vanadium Steel

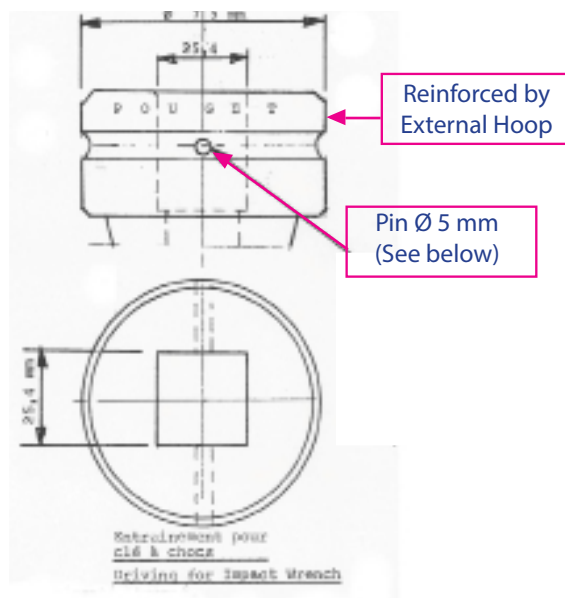
Sockets for Torque Wrench Control Ø 3/4" Drive

For Coachscrews 4-side Square-Head	21mm	Ref. 136-A6
	23 mm	Ref. 136-A5
	27 mm	Ref. 137-C9
For 6-side for Nuts and Bolts	36 mm	Ref. 137-C8
	38 mm	Ref. 137-C7

SOCKETS for S.1.P IMPACT WRENCH **Ø 25.4 mm Drive**

reinforced Sockets treated in Special Nickel-chrome -vanadium Steel

Pin Attachement + rubber ring	For Square-head Coachscrews (mm)						Rectangular	For 6-side nuts (on flats mm)							
	18		21		23		23 x27	30	32	34	35	36	38	40	41
Socket Length	90	130	90	130	90	130	130	90	90	90	90	90	90	90	90
Reference	138C1	138c5	138C2	138C3	138A	138A1	138A2	139C11	139C2	139C5	139C9	139C3	139C6	139C12	139C8



*All our Sockets are treated in Special **Nickel-chrome-vanadium** Steel.*

Rubber Rings (for locking of Pin)	
Ø Internal (mm)	Reference
45	17-LC
50	22-LC
58	21-LC
68	11-LC

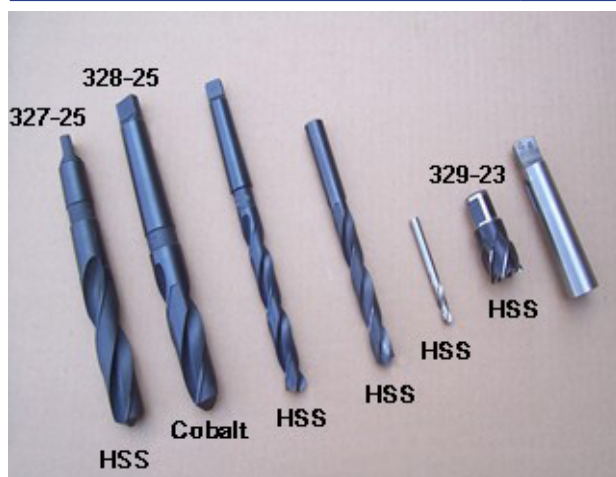
Other Accessories for S.1.P. Machine See Tech. Spec. No. 8-1/2 and 8-2/2	
Pin Ø 5 mm	
Length	Reference
45 mm	18-LC
65 mm	12-LC

DRILLS AND MILLING cutters for drilling rails (and switches and crossings)

USE: Drill rails on the track (or at works Sites) and switches and crossings.

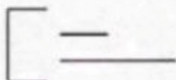
ADVANTAGES: Steel tools of a high technical quality super-fast (HSS). Cobalt steel for drilling hard-grade steel rails (900 -A and 900-B)

1/ Drills in HSS steel-Total length : 200 mm Morse taper shank No. 3 (on request Length=upto 280 mm)	Ø (mm)	2/ Twist Milling Cutters in HSS Steel-Total Length 60 mm / 65 mm Inside Drill Ø 7,2 mm
327-18	18	329-18
327-20	20	329-20
327-21	21	329-21
327-22	22	329-22
327-23	23	329-23
327-24	24	329-24
327-25	25	329-25
327-26	26	329-26
327-28	28	329-28
327-30	30	329-30
327-32	32	329-32
327-33	33	-
327-34	34	-
327-35	35	329-35

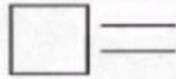


UIC Steel Grade Symbols :

No. Symbol : 700 Quality Steel

 900-A Quality

Electric Process

 900-B Quality
(Abandoned)

* Refined Steel by Oxygen Blowing

After using, Re-sharpen the Drills and Milling Cutters

OPTIONS

- Super-fast COBALT steel drills (for drilling hard-garde rail, 900-A et 900-B) - Ref. **328**
- All of the above diameters are available - Morse taper shank n° 3 - Total length = 226 upto 280 mm.
- Drills with taper square shank (all diameters)- Ref. **330**

«ROISSY» CUTTER

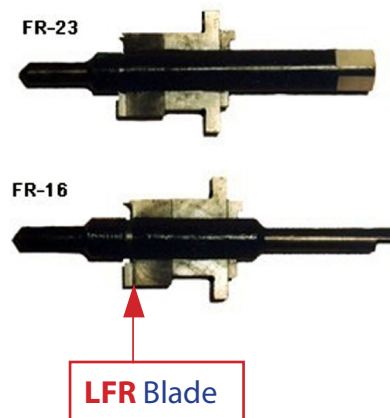
USE: To flush the head of the Coachscrews, and nuts on long sleepers (for bridges and level crossings)

ADVANTAGES: Simple, Tough, Adjustable and easy to re-sharpen

«ROISSY» CUTTER

- Steel body
- Superior high-speed steel blade locked with a conical key
- Drilling of Adjustment : Ø 38 to 80 mm
- Centering attachment Ø 15 mm
- Total length = 230 mm
- Net weight = 1 Kg - Total Length : **FR-23** = 230 mm / **FR-16** = 250 mm

- 23 mm Square Shank Drive **FR-23**
- Ø 16 mm Graffenstaden Shank Drive **FR-16**



OPTION

- ♦ HSS Spare Blade (can be re-sharpened) - Ref. **LFR**



SAW BLADES (for Rails and Sleepers)

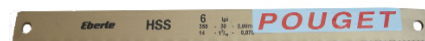
USE: Sawing rails on the track or in workshop (mechanized sawing)
Sawing sleepers. (Manual sawing)

ADVANTAGES: Very high quality durable equipment

1) Saw Blades for Sawing of Rails (packing : 10 Blades)

Special teeth for sawing hard-grade rails offering maximum output..

	Dimensions	Unit Weight	Reference
for Machines	350 x 30 x 2,5 mm	135 gr.	922-B
	400 x 35 x 2,5 mm	200 gr.	66
	450 x 35 x 2,5 mm	240 gr.	66-2
for Hand Saw	500 mm	150 gr.	923



2) Wooden Sleepers Saw Blade - Ref. 1034-S (Spec. 46/3)

Length 800 mm - High-Resistance alternate Teeth
packing : 10 Blades
Reference : **924**



3) Timber Squaring Saw Blades - Ref. 27 (Spec 40/3)

Length 400 mm - Weight 0.9 Kg
Reference : **925**



4) Crosscut saw blades - Ref. 270 (Spec 40/3)

Length 1.35 m - Weight 1.3 Kg
Reference : **926**



OPTIONS

Rail Cutting

- **Machines** - (Tech. Spec. No. **12/1 ; 13/1 and 14/1**)
- **Rail Cutting Disks** (Abrasive Disks and Slitting Saw) - See the Details Tech. Spec. No. **2/2**

SLEEPERS SPIRAL DRILLS (for machines)

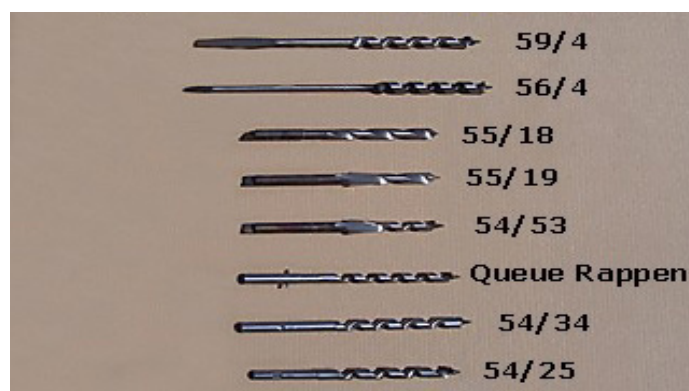
USE: Mechanical drilling of wooden sleepers
(Maximum recommended rotation speed = 1200/1500 rpm) (Packing: 10 pcs)

ADVANTAGES: The finest quality bits ; hardness of 45 /50 HRC, knife tested drilling exotic wood (Azobe, etc.)

1- Cylindrical drills with screw point			2- Reaming drills with conical reamer			3- Drills without screw point
Ø (mm)	Shank Ø 16 mm	Shank Ø 14 mm	Ø (mm)	Shank Ø 16 mm	Shank Ø 14 mm	Shank Ø 16 mm
12	54/31	54/21	-	-	-	55/12
14	54/32	54/22	14 x 18	54/51	54/42	55/14
16	54/33	54/23	16 x 22	54/52	54/43	55/16
17	54/37	54/24	17 x 22,5	54/56	-	-
18	54/34	54/25	18 x 22	54/53	54/46	55/18
20	54/35	54/27	18 x 25	54/54	54/48	-
22	54/36	54/28	19 x 26	54/55	54/49	Ø 16 x 22 : 55/19
24	54/39	54/29	-	-	-	Ø 18 x 22 : 55/20

Shank Ø 16 mm : Type Graffenstaden with flat at the end hole for fastener

Shank Ø 14 mm : POUGET Shank with flat on the shank



OPTIONS

- **Rappen- Type Drills** with shank (all diameters available)
 - ▷ Ø shank = 16 mm
 - ▷ and drive pin Ø 4 mm
- **Hand Augers :** see Spec. **42/3**



ACCESSORIES for **S1P** Impact Wrench

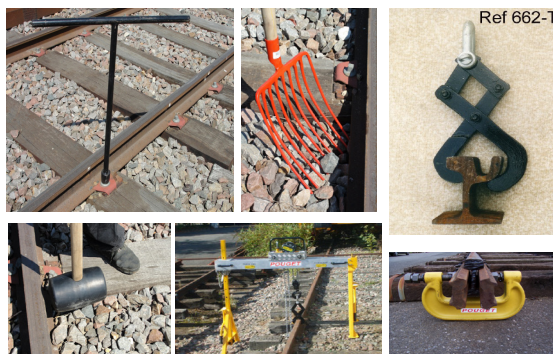
S.1.P. IMPACT WRENCH (See Tech. Spec No. 10/1)		References	Weight
1	Reinforced EXTENSION BAR length 200 mm Drive female square 25.4 mm		
	- Outdrive male square : 25.4 mm..... - Outdrive male square : 23 mm.....	13LC 14LC	1.64 Kg 1.63 Kg
2	Reinforced EXTENSION BAR length 330 mm Drive female square 25.4 mm		
	- Outdrive male square : 25.4 mm..... - Outdrive male square : 23 mm.....	9LC 15LC	2.55 Kg 2.54 Kg
3	UNIVERSAL JOINT - length 110 mm Out drive and drive squares 25.4 mm	10LC	1.04 Kg
4	SLEEPER DRILLING ACCESSORY for drills with a cylindrical shank Ø 16 mm		
	1) Drive by female square 25.4 mm		
	- with a quick fitting on balls length 160 mm - with tightening of drill by screw length 140 mm	ATB 8LC	1.6 Kg 1.38 Kg
	2) Drive by Morse Taper Shank No. 3		
	with a quick fitting on Balls, Total length : 200 mm	16LC	1.3 Kg
5	ROISSY CUTTER , complete equipped for Drilling Ø maxi. 80 mm (Adjustable) Driving by Cylindrical shank Ø 16 mm Total Length 250 mm Centering Attachment Ø 15 mm / Length 45 mm Setting for all Sleepers Drilling Item 4 above. (See the Tech. Spec. No. 5/2)	FR-16	1 Kg
6	RUBBER RINGS (for Locking of Pin)		
	Ø Internal : 68 mm.....	11-LC	6 gr.
	Ø Internal : 45 mm.....	17-LC	5 gr.
	Ø Internal 50 mm.....	22-LC	5 gr.
	Ø internal 58 mm.....	21-LC	6 gr.

ACCESSORIES for **S1P** Impact Wrench

S.1.P. IMPACT WRENCH (See Tech. Spec No. 10/1)		References	Weight
7	PIN (steel) for locking of sockets - Ø 5 mm - Length 65 mm - Length 45 mm	12LC 18LC	12 gr. 6 gr.
8	ADAPTER for Coachscrew sockets : Length 110 mm - Outdrive male square 23 mm - Drive female square 23mm (with centering Ø 29 mm) - Drive female square 25,4 mm	RED-1 RED	0,83 Kg 0,80 Kg
9	SOCKETS for Impact Wrench (Reinforced) in Nickel-chromium -vanadium steel	Tech. Spec. No. 3-2/2	



HAND TOOLS



■ Rail Pulling Devices.....	1/3	■ Track Shifting Crowbars.....	28/3
■ Gauge Retaining Bar.....	1/3	■ Crowbars.....	29/3
■ Flat brushes, Magnetic Bar, Indelebile Chalks.....	2/3	■ Spacing Bars.....	30/3
■ Portable Rail-Pulling / Pivoting Device.....	3/3	■ Picks.....	31/3
■ Switch Rail Key Lock.....	4/3	■ Manual Lightweight Platform Trolleys.....	32/3
■ Ball Probes.....	5/3	■ Lightweight Gantry Cranes for renewal of rails.....	33/3
■ Clamps of Fishplates.....	6/3	■ Lightweight Trestle Gantry Crane.....	34/3
■ Cutting Blowpipe.....	7/3	■ Switch and Crossings Rollers.....	35/3
■ Ballast Ploughs.....	8/3	■ Re-Railing Ramps.....	36/3
■ Sleepers Adzing Tools, «Catalan» Chisel.....	9/3	■ Mechanical Screw Lifting Jacks.....	37/3
■ Ratchet Wrenches.....	10/3	■ Rail Rollers.....	38/3
■ Hand T-Wrenches.....	11/3	■ Handsaws.....	39/3
■ Flat and Pipe Wrenches.....	12/3	■ Pad Scrapers and Pallets.....	40/3
■ Polygonal Ratchet Wrenches (Smaller Size).....	12/3	■ Safety Movable Brake.....	41/3
■ Track Laying Squares.....	13/3	■ Hand Drills Augers.....	42/3
■ Ballast Fork.....	14/3	■ Rail Tongs.....	43/3
■ Brake Shoes.....	15/3	■ Special Rail-Tongs.....	44/3
■ Sleepers Hooping Devices.....	16/3	■ Sleper Tongs.....	45/3
■ Automatic Rail Lubricating Devices.....	17/3	■ Drill Bit Brace.....	46/3
■ Lever for Laying Rail Anchors.....	18/3	■ SEC-1 Track Security Set.....	47/3
■ Chair-Driver.....	18/3	■ FASTCLIP Manual Levers.....	48/3
■ Lever for Laying Rolls.....	19/3	■ PANDROL Manual Levers.....	49/3
■ Rubber-Shoe under rails.....	19/3	■ Flexible Stairs for Track Bench and Embankment.....	50/3
■ Wagon Pinch Bars.....	20/3	■ Handles Panel Holder.....	51/3
■ Files, Machete and Pruing Hook.....	21/3	■ Rammer for Coachscrews.....	52/3
■ Handles.....	22/3	■ Extraction of Broken Coachscrews an Bolts Set.....	53/3
■ Sledgehammers and Hammers.....	23/3		
■ Rail Lifting Hoist.....	24/3		
■ Shovels.....	25/3		
■ Rod Crowbars.....	26/3		
■ Rail Quarter Crowbars.....	27/3		

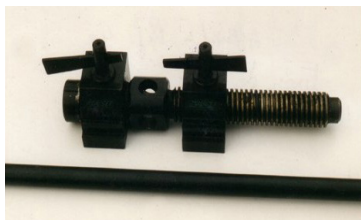
RAIL PULLING DEVICES

USE : Setting the joint: clearance coupling by manual action on the Adjusting Lever.
(Use the Gauge Device- Tech Spec 5/7 - Ref. 580)

ADVANTAGES : Simple - Economical and Tough

Manual Pulling Rail Device «CHOELER» Type 40

- Ø 52 mm Hardened Steel Screw
- Ø 25 mm Centring Pins
- 2 Locking Keys
- 1 Adjusting Lever 0.9 m Length
- Stroke : 350 mm
- Weights : Device = 11 Kg / Lever = 3 Kg



MANUAL JACK with Chain - Type 40-C

- Power 6 Tons
- Stroke 6 m

This Device allows to pull Rails to adjust the Rail Ends Play

(It is possible to pull Spaced Rails until 4 m.)

- Weight : Ratchet 30 Kg / 2 Jaws x 16 Kg
- **OPTION** : Jaws for Tramway Rails.



GAUGE RETAINING BAR / DEVICE TO WIDEN OR NARROW THE GAUGE

SAFETY : Compulsory for tracks with broken Coachscrews or Bolts

- Body made of high-resistance steel pipping with hooks for the rail flange.
- Stroke = 240 mm
- Operates by tightening using a 38 mm hex Nut on Flats
- Length = 1.88 m. (for standard gauge 1435 mm)
- Weight = 11 Kg
- Paint yellow varnish

The Bar is positioned **UNDER THE TRACK.**

- **ELECTRICALLY INSULATED DEVICE** - Reference : **111**
- **NO-ELECTRICALLY INSULATED DEVICE** - Reference : **111-N**



(Other Gauges on request)

The Bar is positioned **ABOVE THE TRACK.**

- **ELECTRICALLY INSULATED DEVICE** - Reference : **112**
- **NO-ELECTRICALLY INSULATED DEVICE** - Reference : **112-N**



OPTION : Extension Bar (adjustable in 3 positions) for Switches and Crossings (Stroke 200 mm)

- Electrically insulated - Reference : **R-111**
- No-electrically insulated - Reference : **R-111-N**



FLAT BRUSHES, MAGNETIC BAR AND INDELIBLE CHALKS



FLAT BRUSHES

Clean the points and crossings
Clean the grooves (rail tramways)

Metal Frame
Treated steel wires Ref. **19-E**
or coconuts wires Ref. **19-C**
Net weight : 0.9 Kg
Supplied mounted with wooden handle
(Length. 1.50 m)



MAGNETIC BAR with permanent magnet

Ø 47 mm
Length 440 mm
Magnetic part length 90 mm with manually operated demagnetization.
Weight : 0.7 Kg

Cleaning of the insulated stucked Rail joints
Elimination of the intempestive incidents of shunt into the electric zones caused by the metal flakes, etc.



INDELIBLE CHALKS

Marking on the track.
The marks are unerasable on steel, wood and concrete.
Length 88 mm
Delivered in boxes Of 12 pcs
Weight per unit = 11 gr.
Weight of 1 box = 0.15 Kg
Yellow - Ref. **306-A**
Red - Ref. **306-B**
White - Ref. **306-C**

PORTABLE RAIL-PULLING / PIVOTING DEVICE

USE : To turn and pull the rails or the switch and crossing

- Transposing the rail so, that the worn running edge is transposed to the outside
- Pulling of the rail

ADVANTAGES : Potable , tough equipment

Load capacity 6 Tons

Includes :

- 1 Base on 2 Rollers able to be rotating at 360°
- 2 Transportation Handles
- Overall Dimensions : 100 x 44 x 30 cm
- Net Weight : 84 Kg
- Paint : yellow varnish
- Reference : **57-C**



OPTION

Load capacity 12 tons - Reference **57-C2** - Net weight : 88 Kg

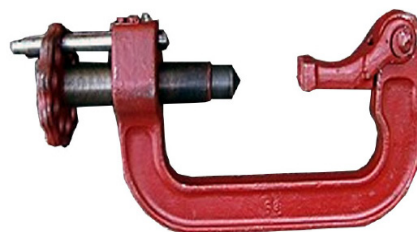


SWITCH RAIL KEY LOCK

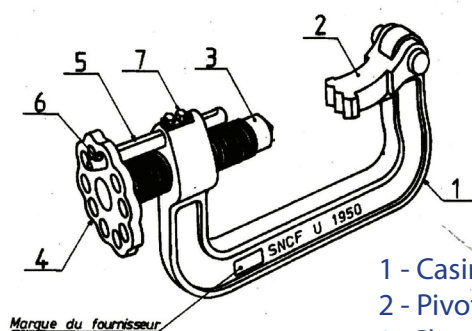
USE: Locking Switch and Crossings

ADVANTAGES: Highly Safe Equipment in forged steel (does not engage the track gauge).

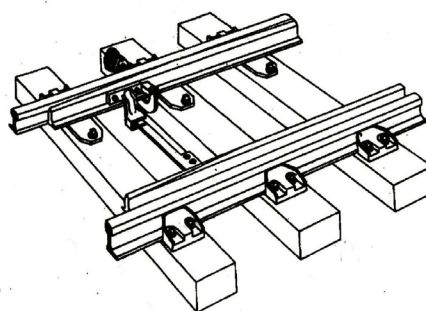
- Model French Railways « **SNCF** »
- Screw stroke : 100 mm
- 10 locking positions
- The screw is made from hardened steel with a 120° pointed end (Small Thread)
- Pivoting Rear Shoe
- Paint : brown varnish
- Overall Length : 40 x 20 x 10 cm
- Weight : 5.7 Kg
- Reference : **271**



Type 1950 Switch Rail Key Lock
(Claw 2 in Normal Setting Position)



Setting on turnout
(Fixed of the left tong)



- 1 - Casing
- 2 - Pivoting shoe
- 3 - Clamping Screw
- 4 - Clamping Hand Wheel
- 5 - Locking Rod
- 6 - Hole for Pad Lock
- 7 - Guidage screw of the rod rep. 5

OPTION

- Trapezoïdal Threaded Screw (minimum quantity = 20 p.) - Ref. **271-FT**

BALL PROBES

USE: To probe pumping sleepers that require additional occasional Tamping.

ADVANTAGES: Simple, Economical and Efficient.

For Concrete Sleepers

Ø Rubber : 140 mm

Length 1 m.

Weight : 9.3 Kg

Reference : **304-B**



For wooden sleepers

(N.F. F - 76 024)

Ø Steel : 100 mm

Length 1 m.

Weight 8.5 Kg

Reference : **304**



For Metal Sleepers

Wooden Ball Ø 90 mm (Hard Oak)

Length 1 m.

Weight 3 Kg

Reference : **304-M**





CLAMPS OF FISHPLATES

USE: Fast Tightening of Fishplates on Track (or on Work-Sites).
Tightening of stopping Shoes.

ADVANTAGES: Allow the freely circulation of the Heavy Machines
on track (Ballast Cleaning Machine - Ref. 64N Model).

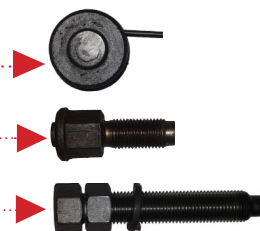
Clamp of fishplates in forged steel «SNCF» Model - Ref. 64

- Body in forged steel
- Tightening screw in hardened steel with 38 mm flat hex ends
- Ø 22 mm Centring Pins
- Tightening Screw Stroke : 100 mm
- Net weight 8 Kg
- Paint yellow varnish



Spare Parts of the Clamp of fishplates Ref. 64

- Ø 22 mm centring pins - Ref. **C-22**.....
- Short Tightening Screw - Ref. **V-33**.....
- Long Tightening Screw - Ref. **V-34**.....
- Spare Parts Kit = **C-22 + V-33 + V-34** = Ref. **K-64**



Clamp of fishplates - Ref. 64N

(does not engage the track gauge)

- Flat steel C-Wench
- with 2 Ø 30 mm hex head socket screws
- Ø 22 mm centring pins
- Weight : 9 Kg



Clamp of fishplates small size - Ref. 64R

- C35 CD-4 Steel
- Tightening screw : 160 mm
- Net weight 8.5 Kg



OPTIONS

- **Clamp for 230 mm Tyre-Rail- Reference : C-230**
- **Clamp for 250 mm Tyre-Rail with 2 pcs, quick tightening- Reference : C-250**

CUTTING BLOWPIPE

USE: - Oxycutting of Rail Parts, Nuts and Bolts, etc ...
- Dismantling of Tracks , etc...

ADVANTAGES: Solid and Extremely Safe to operate.

- Cutting Capacity until 300 mm
- Length 420 mm
- Oxygen and Acetylene Valves.
- 2 Rubber Wheels
- Tube Length 20 m.
- Reference : **CC-1**



OPTIONS

- **SPARE PARTS :**
 - Nozzles - Ref. **BU-1**
 - Tube Length 10 m - Ref. **TU-1**
- Cylinders Rolder Ø 210 mm, mounted on 2 Rubber Wheels Ø 400 mm
(Supplied without Cylinders Gaz) - Ref. **CPB**



BALLAST PLOUGHS

USE: Ballast works by 2 Operating Agents (Bench Repair Works ; etc.)

ADVANTAGES: Simple, Tough and Practical

BALLAST PLOUGH with Exchangeable Prongs

- 4 Square Prongs
- Curved Prongs
- Width = 250 mm
- Chain Length = 1.60 m
- Wooden Handle Length = 1.10 m
- Net weight = 7.5 Kg (with Chain and handle)
- Paint black vamish
- Reference : **650**



BALLAST PLOUGH with Welded Prongs

- 4 Square Prongs
- Metal Handle
- Length 1.10 m.
- Net weight = 7.5 Kg
- Reference : **650-M**



OPTIONS

		References
▪ BALLAST PLOUGH :	▪ 5 prongs - Width 330 mm - Weight 10 Kg.....	652
	▪ 6 prongs - Width 420 mm - Weight 12 Kg.....	651
▪ SPARE PARTS :	▪ Square Straight Prong - Length = 230 mm.....	65-D
	▪ Round Curved Prong - Length = 210 mm.....	65-C
	▪ Wooden Handle - Length = 1.10 m (Ash).....	129

« CATALAN » CHISEL AND SLEEPER ADZING TOOLS

USE : Adzing wooden sleepers.
Retouching adzing of switch and crossings..

ADVANTAGES : This is a tough and durable chisel that can be easily sharpened.

« Catalan » chisel

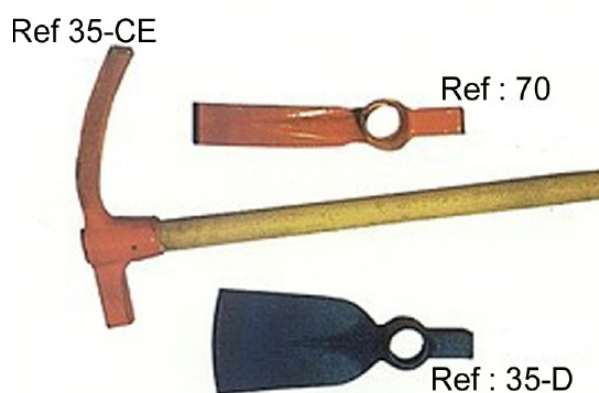
- Hardened steel
- Hex body
- Cutting width = 45 mm
- Length = 300 mm
- Weight = 1.10 Kg
- Paint : black varnish
- Reference : **1039**



Sleeper adzing tools

- Fully forged tools
- Ø 43/48 mm round eye
- Rear square heel
- Weight = 2 Kg
- Paint : Green varnish (or red)

Width of edge (mm)	References
40	70
50	70-C
60	70-B
80	35-C
120	35-D



with Handle : to add «E»
Exemple : **35-CE**

OPTIONS

- Handle adzing tool - Reference **542**



RATCHET WRENCHES

USE: Tighten and loosen the fishplate bolts..

ADVANTAGES: Simple, tough and powerful.

Type « 6 » ratchet wrench

- Total Length = 750 mm.
- With hardened steel ratchet
- Weight = 8 Kg
- Paint : black Varnish



Ref : 6

Supplied without Sockets - See Tech. Spec. No. 3-1/2

Chain wrench type 6-V - «SNCF» model (SCHULZ)

- Total length = 1 m.
- With chain for manoeuvres and reverse gear
- Weight 7.5 Kg
- Paint : yellow varnish - Delivered with 38 mm Hex socket.
(Other dimensions on request)



Ref : 6V

OPTIONS

- **Polygonal Ratchet Wrench Small Size** - See Tech. No. 12/3
- **Flat Wrenches and Socket Wrenches** - See Tech. Spec. No. 12/3

HAND T-WRENCHES

USE: Tighten and loosen the coachscrews and bolts.

ADVANTAGES: Simple and tough.

HAND «T» WRENCHES

- Carbon steel body
- Hardened pointed end
- Height = 800 mm
- Length = 700 mm
- Paint : black varnish

- | | | |
|----|---|-------|
| a) | For Extractor (Page 52/3) 14 mm square..... | |
| | For tightening 18 mm square coachscrews..... | 50-14 |
| | For tightening 20 mm square coachscrews..... | 50-C |
| | For tightening 23 mm square coachscrews..... | 50-B |
| | For tightening 27 mm square coachscrews..... | 50 |
| | For tightening rectangular coachscrews, 18 x 24 mm..... | 50-D |
| | For tightening rectangular coachscrews, 20 x 27 mm..... | 50-E |
| | | 50-F |
| b) | For tightening 32 mm flat hex nuts..... | 51-E |
| | For tightening 35 mm flat hex nuts..... | 51-B |
| | For tightening 36 mm flat hex nuts..... | 51-J |
| | For tightening 38 mm flat hex nuts..... | 51 |
| | For tightening 39 mm flat hex nuts..... | 51-F |
| | For tightening 40 mm flat hex nuts..... | 51-C |
| | For tightening 41 mm flat hex nuts..... | 51-H |
| | For tightening 42 mm flat hex nuts..... | 51-D |
| | For tightening 43 mm flat hex nuts..... | 51-G |



References

T-WRENCH for Bolts of Concrete Sleepers

- Body in Hardness Steel
- Length 300 mm
- For threading with Clamp Screw
- Supplied without Threading-die
- Standard Ø screw-die M.22
- Weight 2.6 Kg
- Ref. **CFB** (to indicate : Ø and Thread Pitch of Bolts)



OPTIONS

- **Hand T-wrench with Long Socket** to tighten the Bolts of Long Sleepers on Metal Bridges (Threaded Rods protruding by more than 100 mm)

▪ For 32 mm flat hexagon nuts.....	52
▪ For 38 mm flat hexagon nuts.....	52-C
▪ For 45 mm flat hexagon nuts.....	52-B
- **Hand T-wrench with drill to clean** the coachscrews holes - Sheet 43/3
- **Hand T-wrench with drill to flush** coachscrews - Sheet 43/3 and 5/2



FLAT AND PIPE WRENCHES - POLYGONAL RATCHET WRENCH SMALL SIZE

USE: Tighten and loosen the bolts on fishplates and switch and crossings.

ADVANTAGES: Simple and tough. The short wrench (model 15) can be used to centre the fishplates using the pointed conical tip.

Polygonal Ratchet Wrench Small Size

Thickness=22 mm - Length=6.75cm - Weight=3.9 Kg

For 35 mm flat nuts.....	CER35
For 38 mm flat nuts.....	CER38
For 40 mm flat nuts.....	CER40
For 42 mm flat nuts.....	CER42



Thickness 22 mm

Pipe wrench - Length 80 cm - Weight 5 Kg

For 35 mm flat nuts.....	CP35
For 38 mm flat nuts.....	CP38
For 40 mm flat nuts.....	CP40



OPTIONS

Type « 6 » ratchet wrench

- Total Length = 750 mm.
- With hardened steel ratchet
- Weight = 8 Kg
- Paint : black Varnish



(Supplied without Sockets)

Sockets : See the Details - Sheet No. 3-1/2

Forged flat wrenches with Hardened Steel Forks

Short wrench with pointed conical tip

Length = 30 cm - Weight = 1.6 Kg

For 32 mm flat nuts.....	15D
For 35 mm flat nuts.....	15A
For 36 mm flat nuts.....	15E
For 38 mm flat nuts.....	15B
For 40 mm flat nuts.....	15C



Long single-ended wrench

Length = 70 cm - Weight = 3 Kg

For 32 mm flat nuts.....	155C
For 35 mm flat nuts.....	155D
For 36 mm flat nuts.....	155A
For 38 mm flat nuts.....	155E
For 40 mm flat nuts.....	155F



Double Flat Straight Wrench

Length 60/70 cm - Weight = 3.5 Kg

Ref. **CPD**



Double Flat Wrench with Oblique Heads

Length 60/70 cm - Weight = 3.5 Kg

Ref. **CPI**



TRACK LAYING SQUARES

USE: Check the position of the sleepers when laying or replacing sleepers

ADVANTAGES: Simple and tough.

FIXED METAL SQUARE

Track gauge (m)	Dimensions (cm)	Weight (Kg)	References
1.44	162 x 115	7.3	390
1 and 1.06	120 x 100	5	390-M
1.52	170 x 115	7.5	390-R
1676	190 x 115	8.7	390-G



FOLDING METAL SQUARE Ref. **PL** (transport casing - Ref. **ET1**)

REINFORCED WOODEN SQUARE

Track gauge (m)	Dimensions (cm)	Weight (Kg)	References
1.44	162 x 112	3.1	391
1 and 1.06	120 x 100	2.7	391-M
1.52	170 x 112	3.3	391-R
1676	190 x 115	3.6	391-G



FOLDING PLASTIC SQUARE - Reference **PVC**

For track 1.44 m - Dimensions = 164 x 115 cm

Folded = 162 x 110 cm

Weight = 7 Kg

Transport casing Ref. **ET2** = Ø 16 cm - Length 170 cm



OPTIONS

- **Insulated metal square** (for track gauge 1.44 mm) - Ref. **390-1**
- **Aluminium metal square** (Weight 4 Kg) - Ref. **390-A**

BALLAST FORK

USE: Ballasting, ballast clearing, etc. (Packing = 5 p.)

ADVANTAGES: Quality tools - with a lifetime warranty

- 9 prongs
- With socket, interior Ø 38 mm
- **Fully forged** by drawing the prongs
- HRC 29/32 hardness
- In conformity with the French Norm N.F.E. 78 001
- Width 28 cm
- Paint : red varnish
- Weight 1.8 Kg
- (Packing = 5 p.)
- Reference : **36**



POUGET TOOL with Total Warranty

OPTIONS

- Fork with Handle :
 - ♦ With Straight Handle - Length 1.10 m - Reference **36-D**
 - ♦ With Bent Handle - Length 1.35 m - Reference **36-C**
- Handles - Tech. Spec. No. 23/3



BRAKE SHOES

USE: Block the wheels of the carriage to stop.

ADVANTAGES: Simple and tough

Standard Brake Shoe (SNCF Model)

- Chromium Nickel Steel Shoe (Hardened)
- 100 % Forged Steel
- Length 500 mm
- Width of Shoe 70 mm - Reference **11** (standard)
- Width of Shoe 75 mm - Reference **11-2**
- Width of Shoe 80 mm - Reference **11-3**
- Paint yellow varnish
- Weight = 6.5 Kg



Brake with Wooden Heel

- with Steel Support Plate
- Handled
- Length = 1.55 m
- Weight = 4 Kg
- Reference : **11-T**



OPTIONS

- **Brake Shoe for Grooved Rails 35-G** - Weight 8 Kg
 - ♦ With support on the right - Reference **11-ED**
 - ♦ With support on the left - Reference **11-EG**



SLEEPERS HOOPING DEVICES

USE: Hooping new and used sleepers, particularly for resignification's operations on switch and crossings woods, longitudinal sleepers.

ADVANTAGES: Manual portable Machines that are durable and extremly simple to use.

AUTOMATIC PORTABLE PNEUMATIC HIGH EFFICIENCY SLEEPERS HOOPING DEVICE

Realizes
in 1 min.

- ▷ the Tightening of the Hoop
- ▷ the fastening of the loop
- ▷ the cutting of the strip after fastening

- Clamping Force : 9000 N
- Fastening of the Clips at 2 notches = 32 x 0.8 mm
- Net Weight 18 Kg
- Reference : **A-483**



Ref : A483

SUPPLY ACCESSORIES FOR A-483

- Electro-zinnced steel Strip 32 x 0.8 mm (1 m. /Hoop) - Steel HR 1100 N/mm²
(250 m. rolls) = 50 Kg - Ref. **142-F**



- Loops of the Hoop, Electro-zinced Steel (Packet of 1000 loops) Réf. **142-B**
- Reel containing the strip,
mounted on Rubber Wheels (Weight 30 Kg) - Ref. **124055**

MANUAL SLEEPERS HOOPING DEVICE (doesn't need loop).....

- Body in aluminium-bronze
- Strip 19 x 0.6 mm
- Net Weight 4 Kg
- Reference : **141-G**



SUPPLY ACCESSORIES FOR 141-H

- Varnish Strip 19 x 0.6 mm (500 m. Rolls) - 50 Kg - Ref. **141-H**
- Reel containing the Strip (Net Weight 20 Kg) - Ref. **4022**



Dévidoir Ref : 4022
pour fretteuse ref 141-G

AUTOMATIC RAIL LUBRICATING DEVICES

USE: Automatic lubrication of rails, especially curved rails (Large radius side) and for heavily stressed rails (rails subjected to winds canying sand deposits)

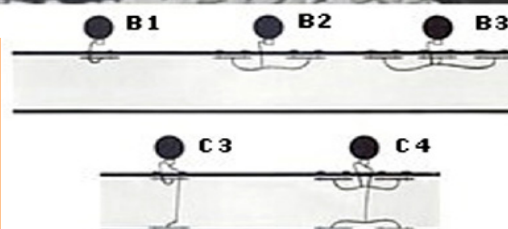
ADVANTAGES: Very simple operating system, does not require drilling of the rail or maintenance.

Complete and independant device for lubricating the rails, including :

- 1 grease tank Ø 0.5 m x 0.75 m high - Volume = 150 liters
- 1 integrated grease pump
- 1 automatic control device using an adjustable pedal
- 1 connection and pipe unit
- Grease-distributor, length = 0.6 m.



Diagram of options available



OPTIONS

- | | |
|--|---------------|
| - Lubricating at 1 point of the rail | GAR-B1 |
| - Lubricating at 2 points of the rail | GAR-B2 |
| - Lubricating at 3 point of the rail | GAR-B3 |
| - Lubricating at 2 points (opposite rails) | GAR-C3 |
| - Lubricating at 4 points (opposite rails) | GAR-C4 |



LEVER FOR LAYING RAIL ANCHORS - CHAIR-DRIVER

USE: Laying and removing rail anchors at the rail flange.
Remove chairs. (1 track on DR rail - Double railhead)

ADVANTAGES: Simple and tough. The length of the lever means less effort is needed..

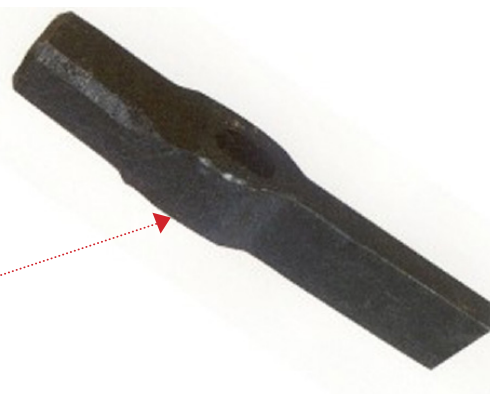
LEVER FOR LAYING RAIL ANCHORS

- Reinforced steel body.
- Its shape has been specially engineered for laying rail anchors at the rail flange.
- **Lever in 2 parts :**
- Total Length 2.20 m :
- Principal Casing = 1 m. (6 Kg)
- Demountable Lever = 1.2 m. (7 Kg)
- Paint : black varnish
- Reference : **103-A**



CHAIR-DRIVER

- Body in forged steel (bare)
- Oval eye = 40 x 22 mm
- Length = 310 mm
- Dimensions of body : 54 x 22 mm
- Weight : 3.4 Kg
- Paint = black varnish
- Reference : **2B**



Ash Handle 0.9 m. - oval 40 x 22 mm - Ref. **128**

LEVERS FOR LAYING ROLLS AND RUBBER-SHOE UNDER RAILS

USE: Free internal rail stress in continuous length of rails.

- Carrying of under-rails Steel Rolls to free internal stress in continuous Length of rails.
- Replacing of the Rubber-Shoe under rail

(In France, it is prohibited to carry out such work between the 15th of June to the 15th of September)

ADVANTAGES: Simple and Tough Tools..

SINGLE LEVER - Ref. 105-B

- Ø 30 mm x Length 1.10 m Hard Steel Lever
- Weight 7 Kg
- Paint black varnish

The 105-B Lever takes off from the top of Sleeper, and by action on the Arm, the rail is raised very easily.

DEMULIPLICATING LEVER - Ref. LRD

- Vertical Lifting Stroke 50 mm
- Lifting Capacity 1 ton
- Lever, Length 1.20 m
- Net Weight 14 Kg
- Paint yellow varnish

The LRD Lever takes off on each side of the rail on Sleeper and by action on the Arm, the rail is raised very easily.

UNDER RAIL PLAQUE

- Ref. **PL-1** (0.65 Kg) With 1 rail and handle.
- Ref. **PL-2** (3 Kg), With 2 steel rails and handle.

LIGHTWEIGHT Gantry Crane Model «Trestle» - Ref. 560/6

- Lifting Capacity 1 Ton
- Hoist with Security Crank Handle
- Net Weight 23 Kg
- Made in all aluminium, operated by 2 Agents (Tech. Spec. N° 34/3)

ROLLS to free internal stress in continuous Length of rails
(Hard Steel Rolls positinned under-rails)

- Ø 25 mm - Ref. **R-25**
- Ø 20 mm - Ref. **R-20**
- Ø 14 mm - Ref. **R-14**

▶ See Tech. Spec. No. 38/3

RUBBER HAMMERS - Ref. 305 to free internal stress in continuous

Length of rails and other works with Handle 1.10 m - Weight 3 Kg (see Tech. Spec No. 22/3)



WAGON PINCH BARS

USE: Handling wagons in the station or in the plant.

ADVANTAGES: LA articulated lever with important force down.
Simple and tough.

ARTICULATED LEVER with wooden handle - Ref. **LA**

- with divided steel push
- Width of body = 90 mm
- Total length = 2.40 m
- Net weight = 26 Kg
- Paint : black varnish

LA ▶



Spare parts :

Wooden handle for **Lever LA**

Length 2.08 m - Weight 9.5 Kg - Ref. **LAM**

LEVER with **aluminium** - Ref. **LA-2**

Total Length : 2.40 m

Net Weight : 18 Kg

Spare parts :

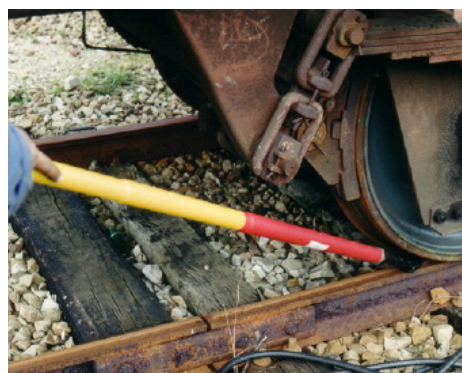
Aluminium handle for **Levier LA-2** - Ref. **LAM-2**

LA-2 ▶



MONOBLOC LEVER - Ref. **LF**

- Standard steel body
- with electrically insulated handle
- Length 2 m
- Weight = 6 Kg
- Stand paint : black varnish



FILES - MACHETE AND PRUNING HOOK

USE: Pruning vegetation and plants along the sides of the tracks.
Sharpening tools - Rail deburring (at flshplate rail joint)

ADVANTAGES: High-Quality, Durable and Guaranteed Tools : easily sharpened.

MACHETE (or cut-cut) - Ref. **27-M**

- Fully forged black blade
- With riveted wooden handle
- Total length = 55 cm
- Net weight = 0.5 Kg



PRUNING HOOK Ref. **27-C**

- Hardened steel
- Opening = 24 cm
- Total length = 40 cm
- Metal handle
- Weight = 0.85 Kg



DEBURRING FILE Ref. **10** for flshplate rail joint

- 2 tangs
- with 2 wooden handles
- Length 325 mm
- Weight = 0.4 Kg





HANDLES

USE: Handles for Hand Tools

ADVANTAGES: Mounting Handles on Railway Hand Tools. (Packets of 25 p.)

TOOLS	Length. (m.)	Material	Shape	Dimensions (mm.)	References
Ballast forks	1.35	chestnut	bent	Ø 38	121
	1.10	ash	straight	Ø 38	122
	1.10	fiberglass	straight	Ø 38	127
Shovels	1.10	ash	straight	Ø 38	122
	1.10	fiberglass	straight	Ø 38	127
Picks round-eye oval-eye round-eye oval-eye	1	ash	round	Ø 50	123
	1	ash	Oval	58 x 40	124
	1	fiberglass	round	Ø 50	133
	1	fiberglass	Oval	58 x 40	134
Chisels	1.3	ash	Oval	36 x 25	126
Hammers	1	hickory	Oval	47 x 32	125
	1	ash	Oval	47 x 32	131
Rubber hammers	1	ash	Oval	45 x 35	130
Adzes	0.6	ash	round	Ø 50	542
Chair-driver	0.9	ash	Oval	40 x 22	128
Ballast ploughs	1.10	ash	round	Ø 42	129
Augers (with flat shank)	0.45	ash	round	Ø 50	541
Augers (with square shank)	0.45	ash	round	Ø 50	541-C
Nylon hammer	0.8	ash	oval	50 x 32	135



SLEDGEHAMMERS AND HAMMERS

USE: As need for all work on the track, for welding rails.
Free internal rail stress in continuous lengths of rails and other work.

ADVANTAGES: Tough and economical.

Forged steel sledgehammers oval eye (without handle) - Paint : black varnish

Weights	References
5 Kg	14
4 Kg	14-B



Rubber sledgehammers Ø 130 mm to free internal rail stress in continuous lengths of rails with 1 m oval handle.
Weight = 3 Kg
Référence : **305**



Bronze sledgehammers with Fiberglass Handles (Total length = 84 cm)

Weight (Kg)	References
3.2.....	305-C1
4.3.....	305-C3
5.....	305-C4
7.3.....	305-C5
8.7.....	305-C2



Nylon Track Hammer Ø 85 mm with Oval-Handle, Length 0.9 m , Weight 3.5 Kg - Ref. **14-N**
Handle 50 x 32 - Length 80 cm - **Ref. 135**



Track-Hammer with handle - Length = 40 cm - Weight = 1.5 Kg Reference : **142**

OPTIONS

- Steel Sledgehammer with 1 m. Wooden Handle (Hickory) - (Weight oh the Handle = 1 Kg)

Weight (Kg)	References
5.....	14-E
4.....	14-BE



- With Unbreakable Fiberglass Handle :

Weight (Kg)	References
5.....	14-P
4.....	14-BP





RAIL-LIFTING HOIST

USE: Accessories for trolleys and gantry cranes.

ADVANTAGES: Tough tools with a safety brake. Complies with European Safety Standards

RAIL-LIFTING HOIST

1) LIFTING CAPACITY 1000 Kg

- 4 **steel** Rollers - ref. **560**
- 1 standard rail tong, ref. 661
- Weight 24 Kg

- 4 **aluminium** Rollers- ref. **562**
- 1 standard rail tong, ref. 661
- Weight 21 Kg



2) LIFTING CAPACITY 1600 Kg

- 4 **aluminium** Rollers - ref. **561**
- 1 reinforced forged steel rail tong, Ref. **662**
- With 1 crank handle lifting device
- Weight 22 Kg



RAIL TONGS Ref. 661/662 - See Tech. Spec. No. 43/3



Rail tong for tramways
ref. **662-T**



Rail Tong for Metro
(Current Rail)
ref. **662-BG**

OPTIONS

- Raised Hoist mounted for using with Trolley ref. **BL**
- Special Rail Tongs (Spec Tech. No-44/3)

SHOVELS

USE : Earth-Works (Packets = 10 p.)

ADVANTAGES : Tough Shovels, Guaranteed to be the Finest Quality, High-Resistance Steel Heat treatment throughout the full length.

STANDARD SHOVELS (Ø 38 mm Socket)

Width (cm)	Unit weight (Kg)	Reference
29	1.4	201
31	1.6	202
33	1.8	203

« St Etienne » SHOVELS (Ø 38 mm Socket)

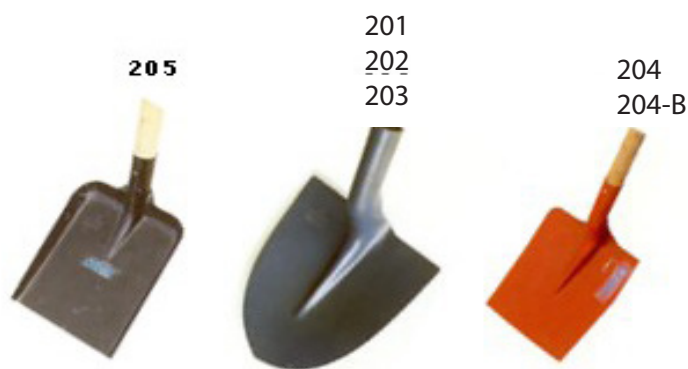
Width (cm)	Unit weight (Kg)	Reference
29	1.7	204
31	1.85	204-B

SQUARE SHOVELS with fold back edges

- Ø 38 mm socket
- Width 23 cm
- Weight = 1 Kg
- Référence : **205**

DRIVER SHOVEL

- Dimensions = 35 x 28 cm
- With D handle
- Weight with handle = 3.3 Kg
- Reference : **206**



OPTIONS

- **Handles** : See spec **22/3** (Length 1.10 m)
- **Aluminium shovel** - Width 24 cm - Weight 0.5 Kg **204-AL**

ROD CROWBARS

USE: Rail Handling Works.

ADVANTAGES: Durable and Lightweight

- Ø 30 mm hard steel
- Conical tips
- Hardened tips
- Paint black varnish



Total Length (m)	Weight (Kg)	Reference
1	5	431
1.30	6.7	431-L
1.50	7.8	431-M

OPTIONS

- **Quater Crowbar** : See Tech. Spec. No. 27/3



RAIL QUARTER CROWBARS

USE : Rail Handling Works.

ADVANTAGES : Durable and Lightweight.

« SNCF » Model

- 4 rotating lugs
- 1 tube steel arm
- Length 1.05 m
- Paint : black varnish
- Weight 5.5 Kg
- Reference : **430-B**



« Enterprise » model

- Completely forged (pour rail Vignole et Tramway)
- Ø 25 mm hard steel arm
- Hardened pointed end
- Length 1.05 m (NF. F. 76.005)
- paint black varnish
- Weight 6.2 Kg
- Reference : **430**



OPTIONS

- **Rod crowbar** : See Tech. Spec. No. **26/3**





TRACK SHIFTING CROWBAR

USE: Track shifting, track alignment works.

ADVANTAGES: Guaranteed and tough.

- Ø 35 mm Hard steel
- Hardened pointed end
- 1 ball at one end
- Paint : black varnish
- Body Ø 35 mm - Length **1.65** m - Weight 13 Kg - Reference : **4**
- Body Ø 35 mm - Length **1.80** m - Weight 14.5 Kg :
 - ▷ with eye (NF. F. 76 006) - Ref. **44**
 - ▷ without eye..... - Ref. **44-S**



OPTIONS

- **Sleepers Spacing Crowbar** : See Tech. Spec. No. **30/3**

PINCHING BARS

USE: Works of Lifting Rails, Plates, etc...

ADVANTAGES: Tough and Guaranteed.

- Octagonal hard forged steel
- Hardened heel and tip
- Paint : red varnish (or black)

Width of Heel (mm)	Length (m)	Weight (Kg)	References
25	0.48	1.45	104-D
36	1	5	104
39	1.25	8.5	104-B
42	1.50	12	104-C





SLEEPERS CROWBARS

USE: Sleepers Spacing Works.

ADVANTAGES: Durable and Lightweight.

French Railway model « SNCF »

- Ø 30 mm hard steel
- Length 1.50 m
- 1 ball at one end
- 1 hardened nib at the other end
- Weight 7.3 Kg
- Paint: black varnish
- Reference : **42**



Ref. 42

« Enterprise » Model

- Ø 25 mm hard steel
- Length 1.20 m
- 2 hardened nibs
- Weight 4.5 Kg
- Paint: black varnish
- Reference : **42-B**



Ref. 42-B

OPTIONS

- **Track Shifting Crowbars** : Tech. Spec. No. **28/3**

PICKS

USE: Earthworks, Ballast Clearing, Manual Tamping, etc ...

ADVANTAGES: Tough and Guaranteed Tools

- Hard full-forged steel.
- Hardened ends
- Paint : black varnish or green

BALLAST CLEARING PICK (4 Kg)

- Round eye Ø 43/48 mm
- Length 85 cm
- Reference : **242**

(Option : Length 110 cm - Weight 4.5 Kg - Ref. **242-L**)



PICKS HEAD

- Pick and plate
- Length 60 cm
- Weight 3.5 Kg
- ▷ **Round eye** - Ref. **72**
- ▷ **Oval eye** - Ref. **72-B**



TAMPING PICKS

- Length 60 cm
- Weight 4 Kg



- ▷ **Oval eye** (Standard model NF. F. 76 007) :
- ▷ **Round eye** :
 - Beater / Plate - Ref. **244-B**
 - Beater / Pick - Ref. **244-C**

- Beater / Plate - Ref. **244**

Luxembourg Tamping Pick

- Forged Steel - Length 50 cm
- Plate/Pick
- Oval Eye
- Weight 2.2 Kg
- Reference : **244-CFL**



OPTIONS

- **Wooden Handles** : See Tech. Spec. No. **22/3**



MANUAL LIGHTWEIGHT PLATFORM TROLLEYS - NEW GENERATION

USE: Transport of all equipment and materials on the track over short distances.
Max load : 500 Kg to 2 tons.

ADVANTAGES: Guaranteed, lightweight (aluminium) and tough equipment that offers total safety of use.

All our platform Trolleys are equipped with **BRAKING DEVICES** and the 4 wheels are electrically insulated.

They are designed with 2 side handles for manipulation by the Operating Agents.

Standard dimensions (for 1.44 m track) : **175 x 75 cm** / (for Metric Gauge) : 132 x 75 cm

The Brake Lever can be positioned on the two sides and is dismountable.

REFERENCES		Load Capacity (Kg)	Parking Brake on 2 Wheels	AUTOMATIC BRAKE		Weight (Kg)
				on 2 Wheels	on 4 Wheels	
PL1T		500	x			48
PL2T		1000	x			52
PL5S		2000		x		63
«SNCF» AGREED						
STANDARD	LGV Ref. (*)					
PL1S	PL1S-LGV	500		x		53
PL2S	PL2S-LGV	1000		x		57
PL3S	PL3S-LGV	500			x	55
PL4S	PL4S-LGV	1000			x	59

(*) **LGV Models**, New Generation are authorized to circulate on High Speed Lines and on Standard Tracks. Height of the Floor at the Running Surface of the rail = 280 mm

Double lightweight platform Ref. **PL5S-GR**
Trolley with automatic brakes and Lateral wheels
Load capacity : 2000 Kg
Dimensions = 200 x 175 cm

OPTION

- **MOTORIZED PLATFORM** - See Sheet No. 5/4
- **LARGE-WIDTH PLATFORM TROLLEY** - Ref. **GL**
- **SIDE ROLLERS** - Ref. **GR**
- **ODOMETER** with Trolley - Tech. Spec. No. 6/7

Manual Super-Lightweight Platform Trolley - Ref. **PL6S**
Load Capacity : 500 Kg
Dimensions = 175 x 50 cm
Weight : **25 Kg**



coupled with Odometer

Braking with Linkage



LIGHTWEIGHT GANTRY CRANES FOR RENEWAL OF RAILS

USE: Renewal of Rails and Switches and Crossings, (lifting and lining of the Track).
Loading and unloading Switches and Crossings on Track Motor Car.

ADVANTAGES: Highly Safety Equipments - Easy to dismantle and transport.

- Horizontal beams made from reinforced aluminium alloy.
- Steel legs with wheels for carrying on rails and handles.

Length Horizontal Beam (m)	Lifting Capacity (Kg)	Quantities			Hoist control	Weight gantry crane alone (Kg)	Ref.	Size
		Fixed Leg	Adjustable Leg	Hoist				
1.2	1000	1	1	1	Crank Handle	49	559/1	Small
1.8	1000	1	1	1	Crank Handle	75	560/2	Medium
			2	1	Crank Handle	86	560/23	
3	1600		2	1	Crank Handle	120	560/3	Large
	2000		2	2	Crank Handle		560/31	
	1600		2	1	with Chain		560/32	
	2000		2	2	with Chain		560/33	
3.5	3200		2	2	with Chain	130	560/34	Super-Large



SNCF AGREEMENTS

Agreed Models	Nos. Agreements
560/2 and 560/23	DPI-14205
560/3	DPI-14204

OPTIONS

- **The Ref. 560/34** with Pivoting Transport Wheels Device allowing to circulate on Auxiliary Lateral Rails : (**Track Center's = 3.30 m**)
- **Rail Tong with Rollers for moving the Rail Ref. 61** (see Sheet No. 43/3 and 44/3)
- **Trestle Gantry Crane 560/6** (see Sheet No. 34/3)

LIGHTWEIGHT TRESTLE GANTRY CRANE

USE : Lifting of the Rail for Various Purposes. Lifting and Lining of the Track.
To change the rubber plates under the rails, and other works (weldings, ...)

ADVANTAGES : Lightweight and durable equipment (all-aluminium construction).

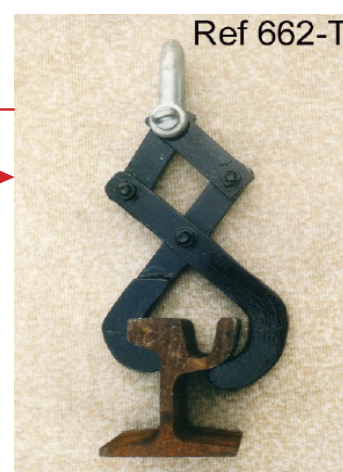
LIGHTWEIGHT TRESTLE GANTRY CRANE Ref. 560/6

- **Lifting Capacity = 1000 Kg**
- Reinforced aluminium Body
- Aluminium Legs with Handles
- Lifting Stroke = 55 cm
- Height = 1 m
- Footing = 45 cm
- Chain Hoist with Safety retaining Brake, and Standard Rail Tong Ref. 661
- Weight = 23 Kg (with Full Hoist)



OPTIONS

- **LIFTING CAPACITY 2000 Kg** with Tong Ref. 662 - Ref. 560/7
- **Tong for Tramways (Grooved Rail)** - Ref. 662-T
- **Tong with Rollers for moving the Rail** (Sheet No. 44/3) - Ref. 61



SWITCH AND CROSSING ROLLERS

USE: Launch switch and crossing, 2 positions :

- Lengthwise
- Crosswise

ADVANTAGES: Durable, Simple and Safety Equipment.

- All-Steel Body
- 2-Flange Steel Wheel - Operating $\varnothing = 100 \text{ mm}$
- Attachment Flanges with Safety Keys (for 2 Positions)
- Unit Load Capacity = 6 tons
- Designed for Rails upto 60 Kg/m and Grooved Rails
- Unit Weight = 25 Kg
- Reference : **57-A**

1st Position



2nd Position



Other Rail Rollers : See Sheet No. 38/3



RE-RAILING RAMPS

USE: Re-rail derailed wagons.

ADVANTAGES: Tough and Reliable Tool.

- Cast, High-Reinforced Steel Body.
- for Vignole Rail, Max Width : 74 mm
- Width of a Ramp at the base = 690 mm
- Width of the Head = 220 mm
- Total Length = 860 mm
- Unit Weight : 105 Kg
- Paint : Black Varnish
- Reference : **R-9**



(This Device is supplied in 2 pcs)

OPTIONS

- **Re-railing screw lifting jack** - Ref. **VM** (Tech. Spec. No. **37/3**)
- **Track Jacks** (See Sheets NO. 3/5)

MECHANICAL SCREW LIFTING JACKS

USE: Re-railling of derailed Wagons

ADVANTAGES: Tough Equipment, both durable and simple to use.
Excellent price / force ratio.

- Steel Body and Carriage
- Steel Screw and Head
- Bronze, High-Resistance Nut for the Vertical Screw Arm Carriage Slide Nut.
- Delivered complete with two Operating Ratchets.
- Paint : yellow varnish
- References : **VM-71 to VM-77**

Type		71	72	73	74	75	76	77
Lifting Capacity	T	5	10	15	20	25	30	50
Ø Screw	mm	49	59	69	74	83	89	100
Lifting Stroke	mm	220	230	230	230	230	230	200
Mini Height	mm	490	510	580	580	610	650	700
Horizontal Stroke	mm	170	270	330	330	330	330	300
Unit Net Weight	Kg	37	55	65	75	80	85	90



OPTIONS

- **RE-RAILING RAMPS** - Ref. **R-9** - See Tech. Spec. No. **36/3**
- **HYDRAULIC JACKS** (See Tech. Spec. 2/5)

RAIL ROLLERS

USE: Travelling of rails. Free internal rail stress in continuous lengths of rails .

ADVANTAGES: Durable and Lightweight Equipment..

SINGLE STEEL-ROLLER - Ref. **571**

- Load capacity = 3 tons
- 48 x 18 cm base with handle
- Weight 15 Kg
- Paint : yellow varnish



DOUBLE STEEL ROLLER - Ref. **57-B**

- Load capacity = 6 tons
- 53 x 40 cm base
- Weight 33 Kg
- Paint : yellow varnish

Option : Capacity 12 tons ref. **57-B2**



LIGHTWEIGHT STEEL-ROLLER - Ref. **570**

- Load capacity = 1 ton
- 40 x 20 cm base-handle
- Weight 13 Kg
- Paint : yellow varnish



STEEL ROLLERS to free internal rail stress in continuous lengths of rails.

- Ø 14 mm - Ref. **R-14**
- Ø 20 mm - Ref. **R-20**
- Ø 25 mm - Ref. **R-25**



See also the Tech. Spec. No. **20/3**

Under-Rail PLAQUES - Ref. PL-1 / PL-2

OPTIONS

- **RAIL TURNER** (See spec.Nº. 3/3), Capacity 6/12 tons
- **SWITCH AND CROSSINGS ROLLERS** (Tech. Spec. No.35/3) - Ref. **57-A**



HANDSAWS

USE : Sawing (Rails / Sleepers)

ADVANTAGES : Tough, High-Yield Equipments.

SAW FOR RAILS - Ref. **8**

- supplied for 500 mm Blade.
- Dimensions = 63 x 26 x 4 cm
- Weight = 2.5 Kg
- 500 mm Blades Ref. **923** (Packets of 10 p.)



TIMBER SQUARING SAW- Ref. **27**

- For Repairing the Sleepers Shoulders
- 2 Arms - Length 1.08 m.
- Weight 2.7 Kg
- Blade Ref. **925** : Length: 400 mm
Weight : 0.9 Kg



WOOD SAW - Ref. **1034-S**

- Metal Frame
- Weight 1.2 Kg
- Blade: Length = 800 mm
(Packet of 10 p.) - Ref. **924**



CROSSCUT SAW - Ref. **270**

- 2 Dismantable Handles, with Position Adjustment.
- Length : 135 cm
- Isocele Tooth Blade - 18 mm Pitch
- Weight 1.9 Kg





PALLETS - SCRAPERS

USE : To peel off the rubber sole plates under the rails
To replace the sole plates
To Clean the switch and crossings.

ADVANTAGES : Tough and Efficient Tools.

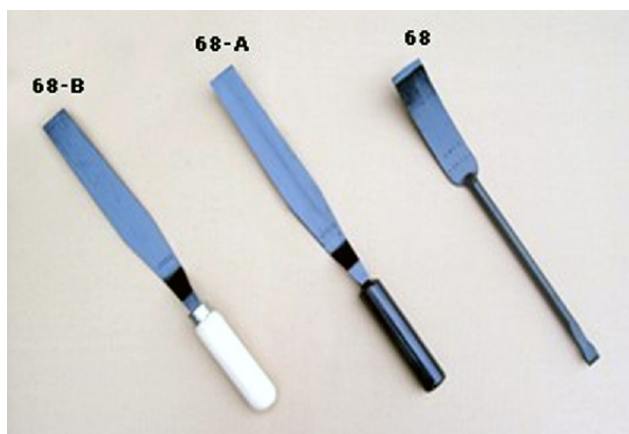
STANDARD PALLET

- Flexible steel to peel off the Rubber pads under the Rails.
- Total Length = 46 cm
- Weight 0.7 Kg
- Paint Black Varnish
- With metal handle - Ref. **68-A**
- With wooden handle - Ref. **68-B**

SCRAPER - Ref. **68**

Used to clean the Switches and Rails, etc...

- Fully forged Steel Body
- Cutting Widths = 45 and 20 mm
- Total length = 420 mm
- Hardened Ends
- In accordance with the French Norm F. 76 009
- Weight 0.6 Kg
- Paint: Black varnish



OPTIONS

- **Wooden Handle** for **68-B** - Ref. **68-BM**

SAFETY MOVABLE BRAKE

USE: Holding wagons when stopped.

ADVANTAGES: Simple and Effective.

- Steel Body
- Blocking Pad under the Wagon Wheel
- 1 Pivoting Flat Bearing
- 1 Triangular red Flag (Plastic)
- Length of the Block : 420 mm
- Total Length 910 mm
- Weight 3.2 Kg
- Paint : White varnish
- Reference : **11-MA**



This device is part of **Track Security Set** (Sheet No.47/3)

OPTIONS

- Safety Movable Brake with Box red-yellow - Ref. **11-MA-B**
- Metal Support for 6 pcs Safety Movable Brakes - Ref. **S-11MA**
- Other Brake Shoes for Wagons - See Sheet 15/3





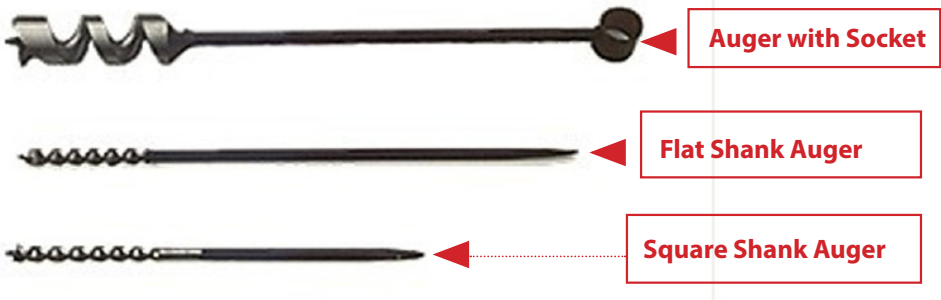
HAND DRILL AUGERS

USE: Drill and Bore Sleepers (Packets of 10 p.).

ADVANTAGES: Quality Tools made from Hardness Steel.

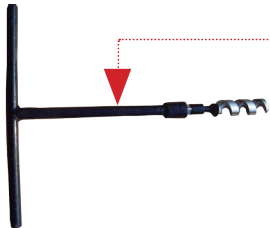
Ø mm	Square Shank Length 420 mm	Flat Shank Length 600 mm	With socket Length 400 mm	Unit Weight gr.
12	56/1	59/1	48/1	300
14	56/2	59/2	48/2	350
15	56/21	59/21	48/3	400
16	56/3	59/3	48/4	420
17	56/31	59/31	48/5	430
17-22	56/32	59/32	48/32	440
18	56/4	59/4	48/6	440
19-20	56/5	59/5	49/5	440
22	-	-	47/1	450
25	-	-	49/6	500
52	-	-	47/3	980
60	-	-	47/4	1150

- Use the wooden handle for flat shank augers (Spec. N° 23/3) - Reference : 541
- Use the drill bit brace for square shank augers (Spec. N° 47/3)



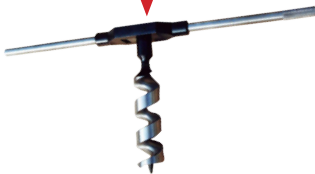
Drills with 23 mm square drive			
Ø (mm)	Ref.	USE	Length (mm)
20	49/5	To clean the Holes of Coachscrews	170
25	49/6		170
52	49/7	To flush the Coachscrew	170

Drill ref. 49/7



Drilling Tool ref. 49/7-T
Total Length 970 mm

Drilling Tool ref. 549/7



RAIL TONGS

USE: Handling rails (on tracks or at working site)

ADVANTAGES: Very Tough Tools with Guarantee.

STANDARD RAIL TONG with Shackle **Force 1.6 ton** - Ref. **661**

- Length 23 cm - Weight 1.9 Kg - Paint : Black Varnish

Reinforced, DROP-FORGED Steel Rail Tong with Shackle, **Force 2 tons** - Ref. **662 (For Vignole Rails)**

- Aperture 155 mm - Length 45 cm - Weight 2.5 Kg
- For Grooved Rail - Ref. **662-T**



RAIL TONG with Rollers and Safety Locking Device (moving the Rail) - Ref. **61**

- Aperture 80 mm - **Force 2 tons** - Weight 17 Kg

HAND-RAIL TONG for carrying for Vignole Rails - Ref. **18-D**

- Up to 60 Kg/m - Hot-Riveted - Paint : Black Varnish - Weight 9 Kg

TONG FOR CRANE with High-Resistance Chain and Rings - Ref. **75**

- **Lifting Capacity 10 Tons** - Total length 1.27 m - Weight 24 Kg

OPTIONS

- **HAND-RAIL TONG for Grooved Rail** (Tramways)- Ref. **18-DT**
- **REINFORCED RAIL TONG** - Force 2 Tons grooved rails (Rl60 / 35G) - Ref. **662-T**
- **SPECIAL RAIL TONGS** - See Sheet 44/3



SPECIAL RAIL TONGS

USE: Handling rails (on tracks or at working site)

ADVANTAGES: Very Tough Tools with Guarantee.

RAIL TONG for Guiding-Bar (Metro)
Ref. **662-BG2**



TRACK-TRAFFIC TONG for runway width :

- 230 mm - Ref. **TP-230**
- 250 mm - Ref. **TP-250**
- 280 mm - Ref. **TP-280**



RAIL TONG for Crane - Force 2 tons
Ref. **662-BG**



TRACK-TRAFFIC TONG
for runway
Réf. **662-BG3**



RAIL TONG with Rollers
and Safety Locking Device
(moving the Rail) - Ref. **61**



SLEEPER TONGS

USE: Handling of Sleepers (wooden and concrete)

ADVANTAGES: Tough (forged steel) and Lightweight

WOODEN SLEEPER TONG - Ref. **610**

- 2 Steel Tube Ø 35 mm Handles
- Length of Arms = 610 mm.
- Forged Steel with Hardened Jaws
- Weight 5.2 Kg
- Paint : black varnish



CONCRETE SLEEPER TONG - Ref. **55**

- 2 Steel Tube Ø 35 mm Handles
- Length of Arms = 1 m.
- Forged Steel with Hardened Jaws
- Weight 7.5 Kg
- Paint : Black Varnish



WOODEN SLEEPER TONG WITH RINGS (for crane) - Ref. **610-M**

- Load capacity = 500 Kg.
- Length of the tong = 900 mm.
- Forged steel
- Weight 10 Kg
- Paint : black varnish



OPTIONS

- **HAND RAIL - TONG** (Tech. Spec. No. 43/3) - Ref. **18-D**
- **CONCRETE SLEEPER TONGS** with shackle (for mechanized device) - Ref. **55-M**



DRILL BIT BRACE

USE : To drill sleepers on the track, with square shank augers (See Spec 42/3).

ADVANTAGES : Simple and Tough.

- Body in forged Steel
- Taken of the Auger by Taper Square Hole (Diameters on sheet 42/3).
- Tightening by Wing Screw.
- Central Handle in steel
- Upper Handle in aluminium
- Length 780 mm
- Paint : black Varnish
- Weight = 2.7 Kg
- French Norm 76020
- Reference : **17**



OPTIONS

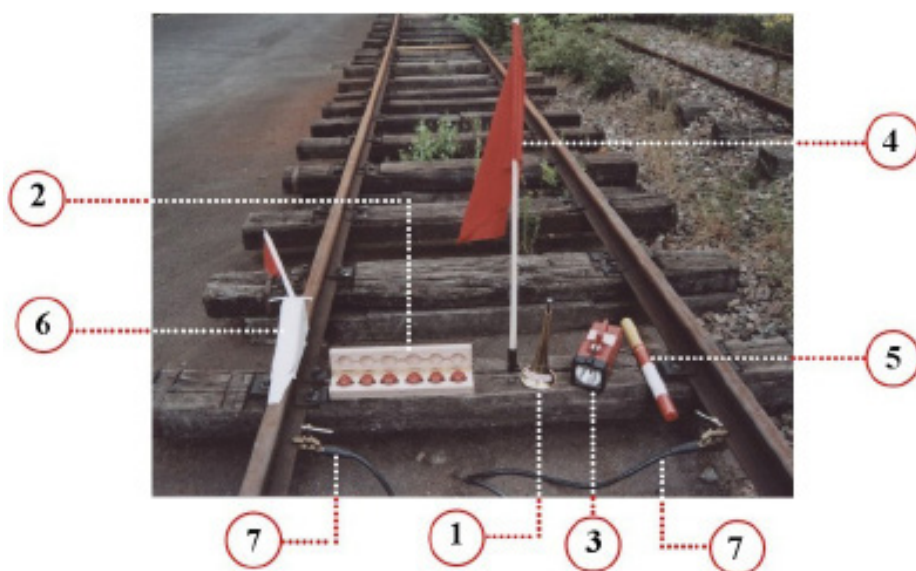
- **SQUARE SHANK Augers for Bit Brace** - See Tech. Spec. No. **42/3**
- **Wooden Handle** for SQUARE SHANK Augers - Ref. **541-C**

SEC-1 TRACK SECURITY SET

This Set of Security SEC-1 is compulsory for all tracted Materials circulating on Track and for all Works on Track.

It comprises :

Rep.	Désignations	Spec. No.	Reference	Weight Kg
1	1 Horn , length 350 mm	2/9	1038	0.26
2	1 Wooden Case with 6 Security Detonators . Dimensions : 500 x 90 x 65 mm	10/9	C-1036	1.68
3	1 Signal Lamp 3 Lights rechargeable 220 V Dimensions : 26 x 12 x 17 cm	7/8	L2F	2.1
4	1 Red Flag , Length 1 m. with Conical metal Tip	7/9	DRPM	0.65
5	1 Red Flare 8 minutes Ø 50 mm x length 540 mm	9/9	1037	1.14
6	1 Safety Movable Brake with Red Flag Length of the Block : 42 cm Total Length with the Flag : 91 cm The Flag may be standing perpendicular to the Track.	41/3	11MA	3.2
7	1 Shunt-Cable of the Rails , Length 2 m. (electrically insulated), with 2 Tightening Rail-Clips. Maxi amperage : 270 A	12/9	CS-1	3



OPTION :

ROLLING KNAPSACK for Transport of the
Track Security Set and hand Tools
Dimensions : 55 x 38 x 25 cm
Weight = 4 Kg
Ref. **SDR**





FASTCLIP MANUAL LEVERS

LEVER to put the **FASTCLIP**

Lever in High-Resistance Steel

Length Lever 1.25 m

Weight : 6.8 Kg

Paint : Yellow and Green

Reference : **107-CL**



LEVER to put down the **FASTCLIP**

Lever in High-Resistance Steel

Length Lever 1.15 m

Weight : 7 Kg

Paint : White and Green

Reference : **107-DCL**



PANDROL MANUAL LEVERS

These Levers are used for the Pandrol Clips - Type **E**, **P** and **PR**.

LEVER for the Installation of PANDROL Clips

Lever in High-Resistance
Length Lever 1.25 m
Weight : 6 Kg
Reference : **110-CL**



LEVER for the Removal of PANDROL Clips

Lever in High-Resistance Steel
Length Lever 1.15 m
Weight : 6.5 Kg
Reference : **110-DCL**



FLEXIBLE STAIRS FOR TRACK BENCH AND EMBANKMENT

USE : They allow to go up the Material and Tools up to on Track.

ADVANTAGES : Lightweight Material joining up Large Lengths.

These Flexible Stairs in anti-skidding rubber, very strong are used to allow the struggled up of materials, tools along the track on the Track.

Connecting Wrench, can be used as Transport Handle.

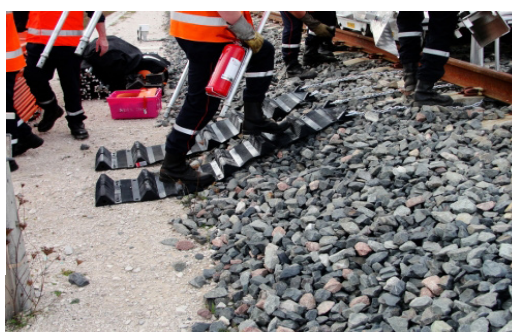


A = 1.60 m

B = 0.40 m

Height of 1 Step = 65 mm

Weight = 9 Kg



Units of the Flexible Stairs connected end to end.

Ref. EMT

Flexible Stairs folded up in position of transport.



Units of the Flexible Stairs connected side by side.

Ref. EMT



Ref. EMT-V

Junction to the Track by 1.60 x 0.40 m Units of the Flexible Stairs

- Between Units by an integrated Connecting Wrench side by side or end to end with the Locking Wrenches.
- to the Track, by Hooks under the Foot of the rail linked chains in steel.

References :

- Units of Flexible Stairs with connecting Wrench locked by safety Pin - Ref. **EMT**
- Units of Flexible Stairs connectable to the Track with Hooks + Chains (see the photo above) - Ref. **EMT-V**

HANDLES PANEL-HOLDER

Manual Transport of panels by 2 Agents in total Security.

These handles panel-Holder allow to lift heavy Loads in reducing the efforts and the Constraint.

Manufacturing in aluminium with a device Auto-fitting and anti-sideslip.

Opening 0 to 80 mm - Ref. **PPP-1**

Opening 40 to 120 mm - Ref. **PPP-2**

Opening 80 to 160 mm - Ref. **PPP-3**





RAMMER FOR COACHSCREWS

USE: Extruding of broken Coachscrews inside Sleepers.

ADVANTAGES: Tough and Reliable Equipment.

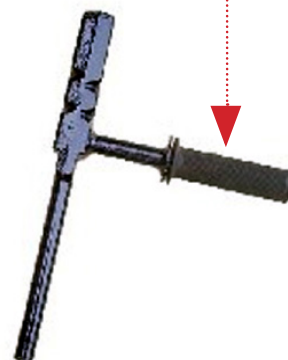
RAMMER FOR EXTRACTION OF BROKEN COACHSCREWS

- Fully forged steel body with indentations
- Ø 19 mm tip
- Hardened Length 180 mm
- Total Length 360 mm
- Weight 1.9 Kg
- Paint black varnish

Without handle Ref. **37**



With handle Ref. **37-H**



PUNCH - Ref. **37-P**

On request, this Tool can be used as Punch : (2 functions)

- 1 - Checking before drilling in the Center of the Coachscrew
- 2 - Extraction of the Coachscrew by means an Extractor with a Square Bit Drive - Ref. **EXT**

OPTION

- **Complete Set for extraction of broken coachscrews** (Agreed by SNCF) - see Sheet 53/3

EXTRACTION SET OF BROKEN COACHSCREWS - Ref. **K-EXT**

Désignations	Reference	Photo
1 WOODEN CASE with handle, containing :	COK	
1 Petrol DRILLING MACHINE (with an automatic Chuck)	SL-19	
1 CHUCK for bits with Graffenstaden Shank (option)	MAG	
1 HAND «T» Wrench 14 mm Square	50-14	
6 HSS DRILLS Ø 6 mm HSS	6-HSS	
3 Carbid DRILLS Ø 12 mm	12-CA	
1 EXTRACTOR	EXT	
1 NYLON BRUSH	PN	
1 centre PUNCH	37-P	
1 HAMMER with Handle 1 Kg	MR-1	
1 Ear PROTECTOR	CAB	
1 LUBRICANT / UNJAMMING 400 ml	LD	
1 Petrol TANK 5 liters (empty)	JC-5	



TRANSPORT ON TRACK



■ Lightweight Scaffolding running on track.....	1/4	■ Crawler Conveyor.....	7/4
■ Movable Scaffolding Bridge.....	2/4	■ Rail Bicycle for Track Inspection.....	8/4
■ Trolleys.....	3/4	■ Transport Set on Track.....	9/4
■ Manual Lightweight Platform Trolleys.....	4/4	■ Rail-Road Vehicle.....	10/4
■ Motorized Lightweight Platform Trolleys.....	5/4	■ Track Inspection Vehicle.....	11/4
■ Wheels on rails.....	6/4	■ Trolley for Transport of Ballast in Bags.....	12/4



LIGHTWEIGHT MOVABLE SCAFFOLDING

USE: Work in Tunnel and Underground.

ADVANTAGES: Ultra-Lightweight Equipment, it is easy to use and transport and very safe to operate. APAVE / VERITAS Inspection Certificate on request.

This Scaffold may be manually pushed along the Track (Rail and Underground / Metro) and it features a Security «Dead Man's» Control Braking Device acting on Wheels simultaneously.

Technical characteristics (Assembly and dismantling : 2 Operating Agents in 20 min.)

- 1 Lorry with Ø 250 mm Wheels (all aluminium)
- 1 Identical Lorry with « Dead-Man's » Control Device acting on 2 Wheels simultaneously.
- 1 Complete Set of **ALUMINIUM** Scaffold with Movable Floors, Plinths and Handrails.
- Dimensions : ▷ **ECR-1** (on 1 Track) = 2.6 x 1.90 m.
- ▷ **ECR-12** (on 2 Tracks) = 2.6 x 6.5 m.

OPTION : 2 Lateral Extensions, Width 0.60 m / 1 m. - (Photo 3)

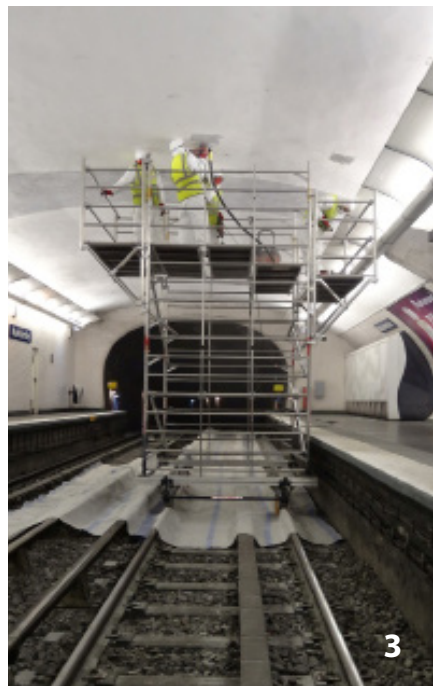
References : ▷ Scaffold : **ECR-1/ ECR-12**
 ▷ Lateral Extension : **DL-1** (0.6 or 1 m.)
 ▷ Safety Rail Tong : **TS (Photo 2)**



ECR-1



Safety Rail Tong - Ref. **TS**
for Works with Lateral Extensions



Working in Metro Station
ECR-1 + (2 DL-1)

OPTIONS

- **Safety Rail Tong with Rollers** (Photo 2) **for Lateral Extension** - Reference : **TS**
- **Scaffold** for all other Track Gauges and all other Height up to 7.5 m (to be specified)
- **ECR-12** : Double Scaffold with Floor : 6.50 x 2.6 m. (on 2 Tracks)
- **PER-1** Double Scaffold with Extensions on the 2 Platforms (Total Length of the Floor = 10 m)



PER-1 MOVABLE SCAFFOLDING BRIDGE

USE: Maintenance Works of Tunnels and Underground (Metro)

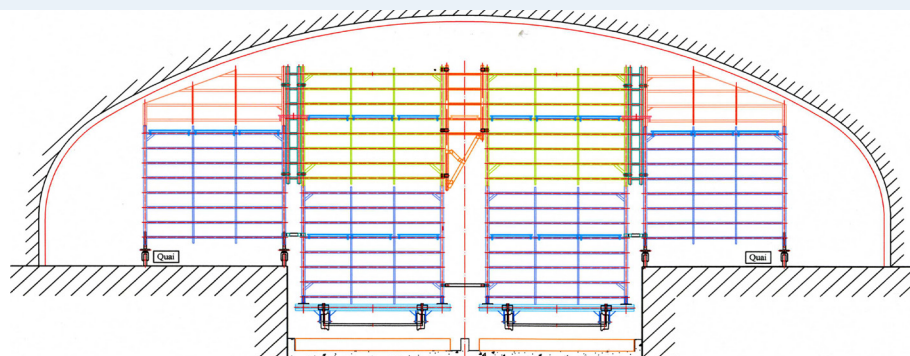
ADVANTAGES: Ultra-light Equipment allowing the complete Maintenance Works in Tunnel, on all the width, and with a Total Safety.

This Movable Scaffolding Bridge runs simultaneously on the two Tracks, and the 2 sides of the Platforms.

It is completely adjustable in height as the layout of the Station. Its components in aluminium-tubes are very light, and easy to assembly by 4 Workers in 20-25 minutes.

It is equipped with brakes on Tracks, and on Platforms.

The **PER-1** Scaffolding-Bridge is approved by «APAVE» Office.



TECHNICAL CHARACTERISTICS :

1) ON THE TRACKS

- 4 Aluminium Lorries with Wheels dia. 250 mm., of which two are equipped with brakes.
- 2 Complete Scaffoldings in aluminium, with movable floors, plinths and handrails, on the 4 lorries.

2) ON THE PLATFORMS

- 2 Aluminium Scaffolds, adjustable in height, with movable floors, plinths and handrails.
- 2 Support-Scaffolds with nylon Wheels, equipped with brakes.

Dimensions : Width 2,60 m.
Length 9,90 m.
Height Adjustable in function of the layout of Tunnels.



TROLLEYS - LORRIES

USE: Transporting Various of Equipment on the Tracks, such as Rails, Sleepers, Switch and Crossings, etc.

ADVANTAGES: Durable Trolleys that comply with the Conditions for Circulation on the Tracks.

Material	Force Unit Tons	REFERENCES			Net Weight Trolley for Standard Gauge (Kg)
		Simple Trolley	With Plate Pivoting and Rail Sliding	With Bracket Loading Rail (x)	
Steel	5	S5	S5PC	-	100
Aluminium	2	AS2	-	-	40
Aluminium	5	AS5	-	-	80
Steel	10	S10	S10PC	S10PCR	175
Steel	15	S15	S15PC	S15PCR	240
Steel	20	S20	-	-	270
Steel	50	S50	-	-	330

((x) The Bracket can be positionned either :
 ■ on the Centre of Trolley
 ■ at One of the End of Trolley



OPTIONS

- **BRAKE DEVICE** using wooden brake blocks, controlled by a hand lever - ref. **FM**
- **WHEELS** - See Tech. Spec. No. **6/4**
- **MANUAL LIGHTWEIGHT PLATFORM TROLLEYS** - See Tech . No. **4/4**



MANUAL LIGHTWEIGHT PLATFORM TROLLEYS - NEW GENERATION

USE: Transport of all equipment and materials on the track over short distances.
Max load : 500 Kg to 2 tons.

ADVANTAGES: Guaranteed, lightweight (aluminium) and tough equipment that offers total safety of use.

All our platform Trolleys are equipped with **BRAKING DEVICES** and the 4 wheels are electrically insulated.

They are designed with 2 side handles for manipulation by the Operating Agents.

Standard dimensions (for 1.44 m track) : **175 x 75 cm** / (for Metric Gauge) : 132 x 75 cm

The Brake Lever can be positioned on the two sides and is dismountable.

REFERENCES		Load Capacity (Kg)	Parking Brake on 2 Wheels	AUTOMATIC BRAKE		Weight (Kg)
				on 2 Wheels	on 4 Wheels	
PL1T		500	x			48
PL2T		1000	x			52
PL5S		2000		x		63
«SNCF» AGREED						
STANDARD	LGV Ref. (*)					
PL1S	PL1S-LGV	500		x		53
PL2S	PL2S-LGV	1000		x		57
PL3S	PL3S-LGV	500			x	55
PL4S	PL4S-LGV	1000			x	59

(*) **LGV Models**, New Generation are authorized to circulate on High Speed Lines and on Standard Tracks. Height of the Floor at the Running Surface of the rail = 280 mm

Double lightweight platform Ref. **PL5S-GR**
Trolley with automatic brakes and Lateral wheels
Load capacity : 2000 Kg
Dimensions = 200 x 175 cm

OPTION

- **MOTORIZED PLATFORM** - See Sheet No. 5/4
- **LARGE-WIDTH PLATFORM TROLLEY** - Ref. **GL**
- **SIDE ROLLERS** - Ref. **GR**
- **ODOMETER** with **Trolley** - Tech. Spec. No. 6/7

Manual Super-Lightweight Platform Trolley - Ref. **PL6S**
Load Capacity : 500 Kg
Dimensions = 175 x 50 cm
Weight : **25 Kg**



coupled with Odometer

Braking with Linkage





LIGHTWEIGHT MOTORIZED TRANSPORT PLATFORM[®]

CHARACTERISTICS : Over Long Distances

- All Aluminium Construction
- Rubber Tired Wheels with Lateral Guiding Rollers
- Motorization unconnected by Portable S.1.P. Wrench
- Reverse Direction operated by the Portable Wrench Rotation.
- Feed in function of the Portable Machine Rotation Speed (3-10 Km/H)
- Load Capacities (See below Table)
- Double Control Braking's Device (type Dead-Man) :
 - ▷ Manual Braking by demountable Lever
 - ▷ Treadle Braking fonctionned by the Operating Agent
- Protection by Lateral Guards
- Weight as the Platform's sizes (110 Kg - 140 Kg)
- Lateral Transport Handles .



Platform sizes (cm) for Gauge 1.44 m	Load Capacity (Kg)	Quantity of Seats Operating Agents (on request)	REF.
175 x 75	500	0	PM-10
175 x 100		2	PM-11
175 x 200		4	PM-12
175 x 75	1 000	0	PM-20
175 x 100		2	PM-21
175 x 200		4	PM-22
175 x 75	1 500	0	PM-30
175 x 100		2	PM-31
175 x 200		4	PM-32
175 x 240	2 000	2	PM-41



The « **MOBEC** » Lighting Set can be stand on the Motorized Platform Trolley. It lights 3000 m² of surface over 360°.

OPTIONS

- **Seats** for Transport of the Operating Agents
- **Sheet Protection**
- **Lighting Balloon** « **MOBEC** », Height 5 m. - Power 4000 W. (See Tech. Spec. No. **5/8**)



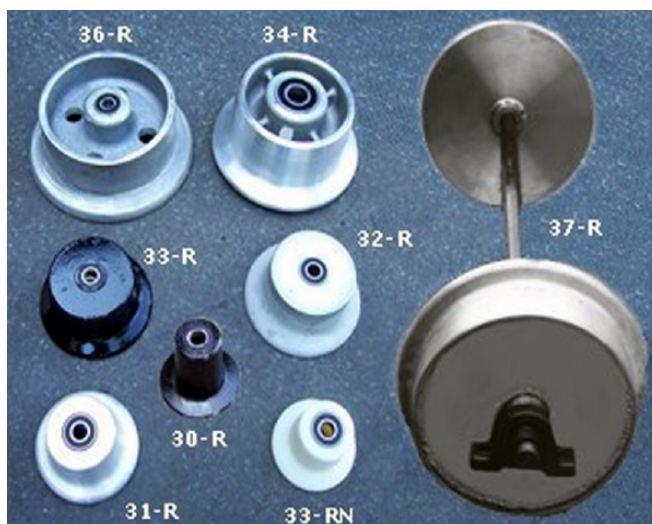
WHEELS ON RAILS

USE: For all Rolling Stock on Track : Platform - Bogies - Machines, etc.

ADVANTAGES: Tough Products that comply with the conditions for travelling on Tracks.

Reference	Material	DIAMETERS		Load Capacity Unit (T)	Weight of Complete Wheel (Kg)
		on Rolling (mm)	Exterior (mm)		
30-R	Steel	68	118	0.5	1.8
31-R	Alu	105	160	0.5	2.3
32-R	Alu	140	200	0.5	2.8
33-R	Steel	140	190	1	6
33-RN	Nylon	140	190	0.5	4
34-R	Alu	220	285	1.25	10
35-R	Steel	250	290	3	15
36-R	Alu	250	320	1	8
37-R	Alu	500	550	2	17

Wheels are available with or without electrical insulation (specified on request)



Wheel Ref. **32-R**

OPTIONS

- Axles with fitted Wheels - (on request)



CRAWLERS-CONVEYORS

USE : To transport Tools and Equipments on Track.
(Welding Equipments etc .)

ADVANTAGES : The Crawlers-Conveyors enable the Trolley to cross on top of the Rails without any difficulty.

Load max. (Kg)	Engine Power KW	Speed Km/h	Dimensions Platform (cm)	Weight (Kg)	Transmission	Ref.
500	4	AV = 4,3 AR = 3	120 x 90	197	Hydrostatical Bucket Steel	HP-500

- ▷ *HONDA 4-stroke Petrol Engines*
- ▷ *Rubber Crawler Tracks*
- ▷ *Clutch Brake*
- ▷ *«Dead-Man's » Control Device*
- ▷ *Dump bucket*



OPTIONS

- **Snow Clearing Kit** (Weight 60 Kg for HP450-500) - Ref. **CN-10**
- **Crawler disengaging Gear** - Ref. **DBC**
- **Lights for Night Works** - Ref. **EHP**

Tese Specifications are given for your information only
and may be technically modified and improved.



VRP-2 RAIL BICYCLE FOR TRACK INSPECTION

USE : Circulation on the Track for 2 Persons and to transport Materials or Tools.
IDEAL FOR ECOLOGICAL TRACKS

ADVANTAGES : Lightweight (all aluminium) dismountable in 4 Parts and transportable by 2 Agents..

- Ø 130 mm aluminium wheels electrically insulated
- Wheels centers : 800 mm
- Brake type « dead-man» driven by one of the Operating Agents , acting on one of the Back Wheels
- Platform Trolley for Transporting of Material = 75 x 75 cm
- LOAD CAPACITY on the Platform Trolley = 300 Kg
- Speed Circulation : 10 to 20 Km/h
- The Whole Device is dismountable in 4 Parts.
- With 2 Adjustable Lateral Protection
- Weights : Aluminium Frame of 2 Bicycles :
 - ▷ Unit Weight 26 Kg
 - ▷ the Whole Devices mounted 70 Kg



The *Inspection Rail-bicycle* can be :

- ▷ Equipped with Seats on central Platform.
- ▷ Can be realized for all Track Gauges.

Overall dimensions (cm)

Type of Track	Length	Width	Height
Standard Gauge	185	107	120
Metric track	142	107	120
Track gauge 3' 6"	149	107	120

▪ The Mounting / Dismounting time by 2 Agents :

- ▷ 3 min.



GMT TRANSPORT SET ON TRACK

USE : Multi-Transports of Operating Agents, Accident Victims and Tools ...

ADVANTAGES : Lightweight Equipments (all Aluminium), with Modular Units as Needs.

The **GMT** Transport Set includes :

- 1 **Motorized Platform Trolley** - Type **PM-10** (Tech. Spec. No. 5/4) :
2 Possible Motorizations : Power 1.7 kW or 3.1 kW
- 3 **Transport Platform** equipped with Protection Guardrails :
Unit Load Capacity : 500 Kg
Dimensions : 175 x 100 cm

RAIL TRAFFIC SPEED : 4 to 6 Km/H

NET WEIGHTS :

- | | |
|----------------------|--------|
| ▪ Motorized Platform | 110 Kg |
| ▪ Motorization Set | 20 Kg |
| ▪ Transport Platform | 75 Kg |

The **GMT Transport Set** can be equipped for all kind of Transport on Tracks :

- Transport of Materials, Machines and Tools
- Transport of Operating Agents (with Multiple Seats)
- Transport for Swift Rescue Actions on Railways Sites (Opposite Pictures : Accident, etc.)



The **Quantity Transport Platform Trolleys** can be **reduced** or **increased** as your Needs.



This Transport Set is agreed by SNCF and the French Firemen Brigades for assistance on Track.



RRV-1 RAIL-ROAD VEHICLE

4X4 Vehicle with KUBOTA Diesel Engine



LOAD CAPACITY on Track	400 Kg
Quantity of Persons :	
▪ in the Front	2
▪ in the Rear	4
Traction Power on Track	6.5 tons
Quantity of Lorries can be tracted	4
Maximum Speed on Track	30 Km/H
Maximum Speed on Switches and Crossings	8 Km/H
Acceptable Maximum Superelevation	200 mm
Percentage of Maxi Gradient	1/25
Minimum Curve Radius	80 m
Dimensions :	
▪ Length	3.4 m
▪ Width	1.82 m
▪ Height	2.1 m
▪ Net Weight	1 170 Kg



RRV 1 can be supplied for all Gauges

RRV-1 RAIL-ROAD VEHICLE
with a Traction-Bar of Lorries





POUGET «PM-12-BEL» TRACK INSPECTION VEHICLE

The Track Inspection Vehicle **PM-12-BEL** is motor-driven. Manufacturing in ALL ALUMINIUM, and derailable very easily by 4 men.

TECHNICAL CHARACTERISTICS

DIMENSIONS :

- For Standard Gauge 1435 mm : 192 x 147 cm
- Metric Gauge 1000 mm : 192 x 104 cm
- Height 150 cm + dismantled at 2.05 m

SPEED RUNNING : 0 to 6 Km/H

WEIGHTS : Vehicle = 150 Kg / Generating Set = 150 Kg

LOADING CAPACITY : 1000 Kg

SOUND LEVEL : Electric Motor = 54 dB(A) / Generating Set = 62 dB(A)

Equipped with **3 Seats** for the Agents, and **1 Seat** for the Driving Operator.

MOTORIZATION :

- 1 Electric Motor : 3 kW - Triphase 380 V - 50 hZ
- 1 Generating Set - 5 kW - Triphase 380 V - 50 Hz

RUNNING DEVICE / BRAKES

- 2 Aluminium Wheels, electrically insulated Ø 250 mm
- 2 Aluminium Wheels, with Rubber Tire electrically insulated Ø 280 mm
- 2 Brakes by foots on the Wheels-Rubber Tire.
- 1 «Dead-Man» foot brake, actionned by the Operator.
- 1 Reversing Gear (Front / Rear)
- 1 Control Pulpit, with reversing-gear device, Stop, and PROXYDRIVE Speed Converter.

SAFETY DEVICES

- Demountable Lateral Guardrails (Height 1 m.)
- 4 Signal Lamps (Red/White) with led bulb.
- 2 Led Projectors 100 W / 230 W for the night works.





TROLLEY FOR TRANSPORT OF BALLAST IN BAGS (PATENTED)

- With hydraulic jacks of lifting (operated by a Manual Pump)
- Platform-Trolley equipped with an automatic brake on 2 wheels
- CAPACITY 2 Tons
- Net Weight 2.8 tons (with loading of ballast)
- Weight of the Plateform-trolley (only) = 72 Kg
- Reference : **LTMS-2T**



Transport of bags with ballast



The bags with ballast can be put into the plateform-Trolley for the Transport on the Track.

The frame is equipped with 4 Hydraulic Jacks of lifting allowing the crossing above the track obstacles.



TRACK LINING AND LEVELLING WORKS



■ Gauge retaining Bars.....	1/5	■ Bill Handles.....	5/5
■ Hydraulic Rail Lifting Jacks.....	1/5	■ Track Shifting Bars.....	6/5
■ Mechanical Rail Lifting Jacks.....	2/5	■ Sleepers Spacing Bars.....	7/5
■ Levelling Telescopes.....	3//5	■ Lightweight Gantry Cranes for renewal of rails.....	8/5
■ Track Lining Ratchet-Wheels.....	4/5	■ Lightweight Trestle Gantry Crane.....	9/5



GAUGE RETAINING BAR / DEVICE TO WIDEN OR NARROW THE GAUGE

USE : Gauging the Tracks.

SAFETY : Compulsory for tracks with broken Coachscrews or Bolts

ADVANTAGES : Doesn't engage the Rail Gauge.

GAUGE RETAINING BAR

- Body made of high-resistance steel piping with hooks for the rail flange.
- Stroke = 240 mm
- Operates by tightening using a 38 mm hex head nut on the flat.
- Length = 1.88 m. (for standard gauge 1435 mm)
- Weight = 11 Kg
- Paint : yellow vanish

The Bar is positioned **UNDER the track**



- **Electrically insulated Device** - Reference : **111**
- **No-electrically insulated device** - Reference : **111-N** (Other Gauges on request)

The Bar is positioned **ABOVE the track.**



- ◀ ▪ **Electrically insulated** - Ref. **112**
Weight : 11 Kg

- **No-Electrically insulated** - Ref. **112-N** ▶
Weight : 11 Kg



OPTIONS

- Bar for other Gauges, (on request)

For **Switches and Crossings** : **Adjustable Extension Bar (in 3positions)** (Stroke 200 mm)

- Electrically insulated - Reference : **R-111**
- No-electrically insulated - Reference : **R-111-N**



HYDRAULIC RAIL-LIFTING JACKS

USE: Track Lifting.
(Tamping - Maintenance - Levelling, etc...)

ADVANTAGES: Equipment to accurately lift the Track.
Lightweight and Effective - Complies with European Safety Standards.

LARGE STROKE HYDRAULIC JACKS

References	Force (T)	Lifting Stroke (mm)	Weight (Kg)
5-G	5	205	18
10-G	10	240	25



HYDRAULIC JACKS (do not engage the track gauge)

References	Force (T)	Lifting Stroke (mm)	Weight (Kg)
6-H (*)	5	160	26
10-H (*)	10	130	24
15-H (*)	15	130	31



OPTIONS

- (*) **Shifting Skid of the Track** (Shifting Stroke : 40 mm) - Photo above - Ref. **P**
(The Shifting Skid is fixed to the Rail Lifting Jack by a dismountable Axle).
- **MECHANICAL RAIL LIFTING JACKS** - Tech. Spec. No. **3/5**

*Tese Specifications are given for your information only
and may be technically modified and improved.*



MECHANICAL RAIL-LIFTING JACKS

USE: Track Lifting (Repairing Works, Laying New Track, Tamping, Maintenance, etc.)
Laying Switch and Crossings.

ADVANTAGES: Very Tough Equipments with Guarantee.
Comply with European Safety Standards.

References	Force (T)	Lifting Stroke (mm)	Weight (Kg)
------------	-----------	---------------------	-------------

JACKS BY RISING RACK with Safety Crank Handle

103	5	400	42
102-B	10	825	71

JACKS BY RISING BEAM with Safety Crank Handle

105	3	350	25
101	5	360	34
101-C	10	320	45
101-D	16	320	72
101-E	20	300	97

TAMPING JACKS WITH OPERATING LEVER

(does not engage the Rail Gauge)

Complete with Crank Handle

Length 1.45 m (Weight Lever = 7 Kg)

Ref.	Force (T)	Lifting Stroke (mm)	Weight (Kg)	Shoe
106	5	200	25	Steel
106-L	5	200	20	Alu

Shifting Skid - Ref. **P**
(for Rail Lifting Jack - Ref. **106** and **106-L**)

References	Force (T)	Lifting Stroke (mm)	Weight (Kg)
------------	-----------	---------------------	-------------

SIMPLEX JACKS BY RISING RACK with Pawl

107	5	240	15.5
108	10	305	30
109	15	290	37
110	20	455	47



OPTIONS

- **RAIL LIFTING JACK** Ref. **106** with Shifting Skid (supplied with Removable Shaft) - Ref. **106-P**
- **SHIFTING SKID** - Ref. **P**



LEVELLING TELESCOPES

USE: Track Levelling Works, (Renovation, Maintenance and Repair Work)

ADVANTAGES: Very Accurate and Reliable.

- **Telescope and Levelling Rod on Stand** (Height above the Rail = 110 cm)
(The telescope includes a Graduated Levelling Sight with Bubble Level)

Reference	Magnification	Read at ... m	WEIGHT (Kg)	
			Telescope	Levelling Sight
LM24X	24 Times	40	11	3
LM50X	50 Times	80	13	3

- **Low Telescope** (Height above the Rail = 18 cm)
(The Telescope includes a Graduated Levelling Sight (5 Graduations) with Bubble Level)

Reference	Magnification	Read at ... m	WEIGHT (Kg)	
			Telescope	Levelling Sight
220	24 Times	40	3	2
235	50 Times	80	3	2.2



Ref : 220



Ref : LM24X

OPTIONS

- For Low Telescope : Track Lining Rule mounted to the back of the Levelling Sight - Ref. **225**
- **Transport cases** (telescope + levelling sight) : ► for Telescope on Stand (wooden) = 17 Kg - Ref. **222**
► For Low Telescope (metal) = 5.3 Kg - Ref. **221**



TRACK LINING RATCHET-WHEEL / BILL HANDLES

USE: Alignment of the rails and track.
Switch and crossings jointing.

ADVANTAGES: Simple, accurate and durable.

MC-1 TRACK LINING RATCHET-WHEEL



1 **Device** includes :

- 1 Ratchet-Wheel, 100 m of Nylon Wire retaining Catch and Quick Device for fastening to the Rail Flange.
- 1 Sline Base with Lateral Adjustment of the Nylon Cord and Device for Quick Attachment to the Rail Gauge.
- Total Net Weight : 5.2 Kg

BILL HANDLES PB-1



- Steel Body Ø 140 mm with Central Handle
- Hardened Steel Toe-Piece Ø 12 mm
- Rolling Nylon Cord 10/10th x 100 m on Bill Handle Body.
- **PB-1** includes 1 Piece of the 2 Bill Handles.
- Unit Net Weight : 670 gr.

▪ **Delivered of the Set :** (2 x **PB-1**) + 1 **Nylon Cord**, Length 100 m - Total Weight = 1.5 Kg

OPTIONS

- **Device for Tramway Tracks (Grooved Rails)** - Ref. **MC-2**



TRACK SHIFTING BARS

USE: Track shifting, track lining works switch and crossings jointing.

ADVANTAGES: Durable and guaranteed.

- Hard Steel Ø 35 mm
- 1 Hardened Nib at one End
- 1 Ball at the other End
- Paint : Black Varnish
- Body Ø 35 mm - Length 1.65 m - Weight 13 Kg - Ref. **4**
- Body Ø 35 mm - Length 1.80 m - Weight 14.5 Kg :
 - ▷ with Eye (NF. F. 76 006) - Ref. **44**
 - ▷ without Eye..... Ref. **44-S**



OPTIONS

- **Sleepers Spacing Bars** : See Tech. Spec. No. **7/5**



SLEEPERS SPACING BARS

USE : Spacing Works.

ADVANTAGES : Lightweight and Durable.

French Railways Model

- Ø 30 mm Hard Steel
- Length = 1.50 m
- 1 Ball at one End
- 1 Hardened Nib at the other End
- Weight = 7.3 Kg
- Paint : Black Varnish
- Reference : **42**



Ref. **42**

Enterprise Model

- Ø 25 mm Hard Steel
- Length = 1.20 m
- 2 Hardened Nibs
- Weight = 4.5 Kg
- Paint : Black Varnish
- Reference : **42-B**



Ref. **42-B**

OPTIONS

- **Track Shifting Bars** : Tech. Spec. No. **6/5**



LIGHTWEIGHT GANTRY CRANES FOR RENEWAL OF RAILS

USE: Renewal of Rails and Switches and Crossings, (lifting and lining of the Track).
Loading and unloading Switches and Crossings on Track Motor Car.

ADVANTAGES: Highly Safety Equipments - Easy to dismantle and transport.

- Horizontal Beams made from reinforced aluminium alloy.
- Steel Legs with Wheels for carrying on rails and Handles.

Length Horizontal Beam (m)	Lifting Capacity (Kg)	Quantities			Hoist control	Weight gantry crane alone (Kg)	Ref.	Size
		Fixed Leg	Adjustable Leg	Hoist				
1.2	1000	1	1	1	Crank Handle	49	559/1	Small
1.8	1000	1	1	1	Crank Handle	75	560/2	Medium
			2	1	Crank Handle	86	560/23	
3	1600		2	1	Crank Handle	120	560/3	Large
	2000		2	2	Crank Handle		560/31	
	1600		2	1	with Chain		560/32	
	2000		2	2	with Chain		560/33	
3.5	3200		2	2	with Chain	130	560/34	Super-Large



SNCF AGREEMENTS

Agreed Models	Nos. Agreements
560/2 and 560/23	DPI - 14205
560/3	DPI - 14204

OPTIONS

- **The Ref. 560/34** with Pivoting Transport Wheels Device allowing to circulate on Auxiliary Lateral Rails : (Track Center's = 3.30 m)
- **Rail Tong with Rollers for moving the Rail** (see Tech. Spec. No. 43/3 and 44/3)
- **Trestle Gantry Crane** (see Tech. Spec. 24/3, 43/3 and 44/3)



LIGHTWEIGHT TRESTLE GANTRY CRANE

USE: Lifting of the Rail for Various Purposes. Lifting and Lining of the Track.
To change the rubber plates under the rails, and other works (weldings, ...)

ADVANTAGES: Lightweight and Durable Equipment (all-aluminium Construction).

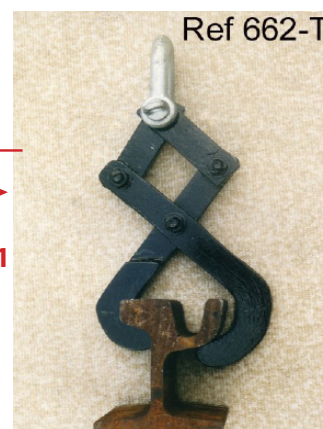
LIGHTWEIGHT TRESTLE GANTRY CRANE Ref. 560/6

- Reinforced aluminium Body
- Aluminium Legs with Handles
- Lifting Stroke = 55 cm
- Height = 1 m
- Footing = 45 cm
- Lifting Capacity = 1000 Kg
- Chain Hoist with Safety retaining Brake, and Standard Rail Tong
- Weight = 23 Kg (with Full Hoist)



OPTIONS

- **LIFTING CAPACITY** 2000 Kg - Ref. **560/7** →
- **Tong for Tramways** (Grooved Rail) - Ref. **662-T**
- **Tong** with Rollers for moving the Rail (Tech. Spec. No. 44/3) - Ref. **61**





RAIL WELDING EQUIPMENTS



■ Mobile Safety Barriers.....	1/6	■ Hydraulic Rail Tightener.....	7/6
■ Welding Rules and Square.....	2/6	■ Chisel (cold / hot).....	8/6
■ Electric Welding Sets.....	3/6	■ Crawler-Conveyor.....	9/6
■ Rail profiling Grinders.....	4/6	■ Portable Impact Wrenches.....	10/6
■ Electric Rail Grinders.....	5/6	■ Abrasive Rail Cutting Machine.....	11/6
■ Manual Lightweight Platform Trolleys.....	6/6		



MOBILE SAFETY BARRIERS BMS (Patented)

USE: Physical Protection for Operating Agents on Tracks.

ADVANTAGES: Lightweight, Effective and very easy to install and transport.

- These Barriers are equipped with Safety Devices enabling trains to travel at High Speed on the neighbouring Track without any Risk for the Operating Agents.
- Possibility of working without Risk of tipping.

1 **Mobile Safety Barrier** equipped with :

- 1 Handle Platform (30 Kg)
- 1 Platform Trolley with Automatic Brake Ref. **PL1S-PC** «**SNCF**» **Agreed** (Weight 59 Kg)
- Easily Dismountable Lateral Barriers (in Panel of 3 m.)
- Each Panel (3 m.) is folded in **2 parts of 1.50 m.** , Can be Transported in Truck (**Weight 19 Kg**)

Space of free evolution on the Track inside the Mobile Barrier

(m)	In all ALUMINIUM STRUCTURE	TYPE
3		BMS-1
6		BMS-2
9		BMS-3



Transport Platform Trolley Ref. **PL1S-PC**,
with Adjustable Control Lever in Length

Load Capacity : 500 Kg

See the Details on the Technical Specification No. **4/4**



OPTION

- Safety Barrier with Device fixed on rail - Ref. **BMR** , equipped with aluminium panel (3 m.)

WELDING RULES AND SQUARE

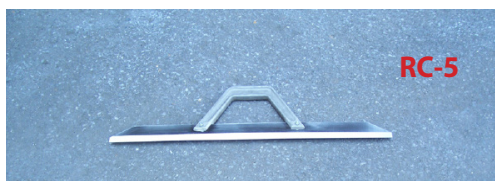
USE: Check the Rail Squaring before welding.

ADVANTAGES: Gauge to allow the square to fit in the gap between the 2 rails to be welded..

BEVELLED RULES

Body in Bevelled Stainless Steel with Handle.
Accuracy = 1/10th mm

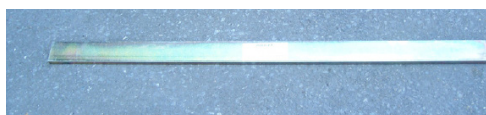
Ref.	Length (m)	Weight (Kg)
RC-5	0.5	1.5
RC-10	1	3
RC-15	1.5	4.5



RP-10 FLAT RULES (Steel)

For Rail Adjustment before welding
Rectangular Section : 50 x 12 mm - Length 1 m
Weight = 4.7 Kg

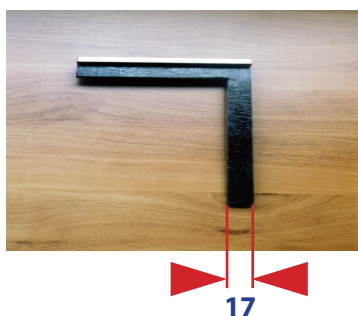
with chromatic protection.



RP-10

WELDER SQUARE ES-1

(For aluminothermic weldings)
To check the Interval between rails
Hard Steel (Inox)
Length : on the rail head 120 mm
into the interval 180 mm
Width : 17 mm
Weight : 0.5 Kg



WELDER SHORT RULER WSR-20

To control the space before welding
Width 18 mm / Thickness 0.5 mm
Stainless steel
2 scales : 0-20 / 0-200 mm



OPTIONS

- **Protective Sleeves for RC-10 Rule** - Ref. **FPR-10**
- **Protective Sleeves for RC-15 Bevelled Rule** - Ref. **FPR-15**



ELECTRICAL WELDING SETS - **GS**

USE: Works on the Tracks.
(Re-surfacing of rails, Switched and Crossings, Various Repair Works ...)

ADVANTAGES: Professional, Strong and Economical Equipment.

Portable Lightweight Welding Sets, complete with Safety Devices, is equipped with :

- ☐ 1 Overcurrent Disconnector 30 mA
- ☐ Direct current welding

In position of Generating Set, it produces 400 V Triphase Current , and 230 V Single Phase.
Mounted on 2 Rubber Wheels for easy transportation, with Handles.
(not represented on the photo below)

Fuel	Power (HP)	Intensity Maxi (A)	The Set POWER		Ø MAXI of Electrode (mm)	Weight of the Set (Kg)	References
			400 V Triphase (kW)	230 V single Phase (kW)			
Petrol	14	220	7.2	3.2	5	98	GS.10
Diesel	9.4	220	4.7	3.5	4	120	GS.12



OPTION

- ▷ Welding Kit with Cable 35 mm² - Ref. **KS**
- ▷ Interdifferential Safety Protection Kit for the users - Ref. **KI** , comprenant :
 - 1 Interdifferential 30 mA
 - 1 Earth Rod
 - 1 Case
- ▷ **Geneariting Sets** - See Tech. Spec. Nos. 24/1



RAIL PROFILING GRINDERS (N-1 / N-12)

USE: Grinding after Alumino-thermic welding of rails.

ADVANTAGES: Grinding after Reprofileing of rails or Switches and Crossings.

N-1 PROFILE RAIL GRINDER

- Portable, to grind the rail 100 RE-90 R - UIC-54 after aluminothermic welding
- With BERNARD Petrol Engine 7 HP - 4-stroke
- Inclination possible from the horizontal to vertical position
- Total swiveling range of the grinding unit is more than 180°
- Grinding Wheel Ø 150 mm x 75 mm - Ref. 1039-B
- Special Frame Construction with full view of the grinding Surface Light Weight System consisting of combined support and guide rollers to hold the machine against the rail when grinding in horizontal position
- Rotating Speed of the Wheel : 4 000 rpm
- Centre-to-centre Guide Runners : 1 m.
- Grinding Accurate : ± 0.1 mm
- Weight = 68 Kg



N-12 PROFILE RAIL GRINDER, with Flexible

- With Flexi-Horse, length 3.5 m equipped with :
 - ▷ Ø 150 mm Cup Wheel (option : 125 mm)
 - ▷ or Ø 150 or 200 mm Flat Wheel

This Machine is equipped with :

- 1 Petrol Engine 7HP (4 stroke or 2 stroke)
- 1 Flexi-Horse, length 3.50 m with Ø 150 mm Flat Wheel
- 1 Quick-Assembly Union between the Flexi-Horse and the Rail Grinding Machine.
- Weights : Machine 58 Kg / Flexi-Horse 15 Kg



OPTION

with Electric Motor 4 kW - Ref. **N12-E** - Weight : 57 Kg



ELECTRIC RAIL GRINDERS (230 V - 50 Hz)

USE: Finishing Grinding after Welding and Re-loading of rails Switches and Crossings. (It is forbidden to use these Grinders with the rain)

ADVANTAGES: Reliable, Strong and Silent.

NP-5 PORTABLE RAIL GRINDER MACHINE

- 2500 W - 230 V - 50 Hz
- Ø 115 mm Cup Grinding Wheel (Ref. 1039-K)
- Weight = 6 Kg

MAIN USE

- Finishing Grinding after Aluminothermic Welding.



NP-17 LIGHTWEIGHT PORTABLE RAIL GRINDER

- 2600 W - 230 V - 50 Hz
- Ø 115 mm Cup Grinding Wheel (Ref. 1039-K)
- Centre-to-centre Guide Runners : 750 mm (all Other Dimensions on request)
- Weight = 35 Kg

MAIN USE : For rail levelling (Rail Corrugation) and connecting at Switches and crossings after re-loading.



MPE-10 LIGHTWEIGHT PORTABLE RAIL GRINDER

- 1300 W - 230 V - 50Hz
- Ø 72 mm Cup Grinding Wheel (Ref. 1039-D)
- Weight = 2.3 Kg

MAIN USE : for Rail Grinding Finition and for Joints and Welding Rectification, as well as Switches and Crossings.



OPTIONS

- **Grinding Wheels** - Tech. Spec. NO. **2/2**
- **Portable Generating Sets** - Tech. Spec NO. **24/1**
- **Welding Rules** - Tech. Spec. NO. **2/6**
- **Thermic Rail Grinders** - Tech. Spec. NO. **5/1**

Nota : Do not use these Rail Grinders with the rain for your SECURITY



MANUAL LIGHTWEIGHT PLATFORM TROLLEYS - NEW GENERATION

USE : Transport of all equipment and materials on the track over short distances.
Max load : 500 Kg to 2 tons.

ADVANTAGES : Guaranteed, lightweight (aluminium) and tough equipment that offers total safety of use.

All our platform Trolleys are equipped with **BRAKING DEVICES** and the 4 wheels are electrically insulated.

They are designed with 2 side handles for manipulation by the Operating Agents.

Standard dimensions (for 1.44 m track) : **175 x 75 cm** / (for Metric Gauge) : 132 x 75 cm

The Brake Lever can be positionned on the two sides and is dismountable.

REFERENCES		Load Capacity (Kg)	Parking Brake on 2 Wheels	AUTOMATIC BRAKE		Weight (Kg)
				on 2 Wheels	on 4 Wheels	
PL1T		500	x			48
PL2T		1000	x			52
PL5S		2000		x		63
«SNCF» AGREED						
STANDARD	LGV Ref. (*)					
PL1S	PL1S-LGV	500		x		53
PL2S	PL2S-LGV	1000		x		57
PL3S	PL3S-LGV	500			x	55
PL4S	PL4S-LGV	1000			x	59

(*) **LGV Models**, New Generation are authorized to circulate on High Speed Lines and on Standard Tracks. Height of the Floor at the Running Surface of the rail = 280 mm

Double lightweight platform Ref. **PL5S-GR**
Trolley with automatic brakes and Lateral wheels
Load capacity : 2000 Kg
Dimensions = 200 x 175 cm

OPTION

- **MOTORIZED PLATFORM** - See Sheet No. 5/4
- **LARGE-WIDTH PLATFORM TROLLEY** - Ref. **GL**
- **SIDE ROLLERS** - Ref. **GR**
- **ODOMETER** with **Trolley** - Tech. Spec. No. 6/7

Manual Super-Lightweight Platform Trolley - Ref. **PL6S**
Load Capacity : 500 Kg
Dimensions = 175 x 50 cm
Weight : **25 Kg**



coupled with Odometer

Braking with Linkage



These Specifications are given for your information only and may be technically modified and improved.



HYDRAULIC RAIL TIGHTENERS - TR-70

USE : Adjusting the gap between 2 Rails before welding Tighteners to free continuous Lengths of Rails.

ADVANTAGES : Very Tough Equipment designed to ensure that trains can move freely, without engaging the Track Gauge.

- Tensile force = **700 KN**
- Longitudinal Stroke of Hydraulic Jacks = 350 mm
- Operating Pressure = 600 Bars
- Automatically operated Jaws suitable for all Rail Section up to 60 Kg/m.
- Tie Rods of various lengths (to specify) ranging from 0.50 m to 2 m. (Standard Length = 1.80 m)
- Overall Width : 750 mm (excl. tie rods)
- Total Weight approx. = 270 Kg
- Operates using a Manual Pump or Hydraulic Unit.

1 **Standard Rail Tightener** ref. **TR-70** is equipped :

- 2 Tightening Sets by a Jaw
- 2 Hydraulic Jacks - Force 75 tons
- 2 Tighteners, Length 1.80 m
- 1 Manual Hydraulic Pump



OPTIONS

- **Welding Square** - Tech. Spec. No. 2/6

CHISELS (COLD / HOT)

USE : - Cutting all Parts, bolts, etc. (Cold Chisel)
- Cutting the Edges of Incandescent Welds (Hot Chisel).

ADVANTAGES : High Quality and Tough Equipment.

COLD CHISEL

- Cutting Width = 40 mm
- Octogonal Heel
- Sharpening Angle 70°
- Length = 200 mm
- Oval Eye = 36 x 25 mm
- Weight = 1.8 Kg
- Reference : **16**



HOT CHISEL

- Cutting Width = 40 mm
- Octogonal Heel
- Sharpening Angle 45°
- Length = 200 mm
- Oval Eye = 36 x 25 mm
- Weight = 1.8 Kg
- Reference : **161**



OPTIONS

- **HANDLES (ash)** - Ref. **126** (Sheet No. 22/3)
- **Handle Chisel** - Ash Handle - Add **EF** (Ex : 16-EF, or 161-EF)



CRAWLER-CONVEYOR

USE: To transport Tools and Equipments on Track.
(Welding Equipments etc.)

ADVANTAGES: The Crawlers-Conveyors enable the Trolley to cross on top of the Rails without any difficulty.

Load max. (Kg)	Engine Power KW	Speed Km/h	Dimensions Platform (cm)	Weight (Kg)	Transmission	Ref.
500	4	AV = 4.3 AR = 3	120 x 90	197	Hydrostatical Bucket Steel	HP-500

- ▷ *HONDA 4-stroke Petrol Engines*
- ▷ *Rubber Crawler Tracks*
- ▷ *Clutch Brake*
- ▷ *«Dead-Man's» Control Device*
- ▷ *Dump bucket*



OPTIONS

- **Snow Clearing Kit** (Weight 60 Kg for HP450-500) - Ref. **CN-10**
- **Crawler disengaging Gear** - Ref. **DBC**
- **Lights for Night Works** - Ref. **EHP**



PORTABLE IMPACT WRENCHES

PORTABLE IMPACT WRENCH **S1-P**

- With reverser of direction
- 2-stroke **Petrol Engine** - 1,7 kW
- Max. Torque = 100 da.Nm (Adjustable at 0 to 100 da.Nm)
- Dimensions :
 - Length : 760 mm
 - Height : 350 mm
 - Width : 390 mm

Standard Drive Square : 25.4 mm - **Option** : 23 mm

- Net Weight : 19 Kg

OPTIONS

- Low-Vibration Device - Weight = 1 Kg
- Reinforced Socket for Impact Wrench treated in Special Nickel Chrome Vanadium Steel - Tech Spec. NO. **3-2/2**
- **Other ACCESSORIES** - Tech. Spec. **8-1/2** and **8-2/2**



PORTABLE IMPACT WRENCH **S4-P**



This Portable Machine allows to work on track through the use of **S1P Impact Wrench** and can be easily taken from the Track by one Operating Agent.

WEIGHT OF THE COMPLETE MACHINE : **35 Kg**

TECHNICAL CHARACTERISTICS

- **S1P** Impact Wrench, with a 2-stroke Petrol Engine
Power 1.7 kW - Max Torque : 100 da.Nm, Adjustable.
with reverser direction of the rotation - Square Drive 25.4 mm
(Sockets - available in all dimensions) - See the Tech. Spec. No. **3-2/2**
- **All aluminium Trolley Support**, with Pivoting Reinforced Pneumatic Shock Absorber.
Dismantable Aluminium Bar-Trolley with insulated Nylon Roller - Weight : 14 Kg

OPTION : PORTABLE ON BATTERY 18 V Coachscrewing Machine with Trolley S5P (Details on Sheet 11/1)
Weight 35 Kg

OPTIONS

PORTABLE ELECTRIC IMPACT WRENCHES 220 V / 50 Hz (It is forbidden to use them in the rain)

- Max. Torque 60/dN.m - Weight 8 Kg - Ref. **TBE-20**
- Max. Torque 100/dN.m - Weight 10 Kg - Ref. **TBE-30**



ABRASIVE RAIL CUTTING MACHINE **TR4-14**

An Ultra -powerful Machine for quick and accurate cut of rails.

TECHNICAL CHARACTERISTICS

- 2-stroke Petrol Engine - 119 cm³ - **POWER 5.8 kW**
- Steel Clamp with Spring for rails upto UIC-60
- Possibility to reverse the Engine to finish the cut
- Automatic earthing (Safety)
- Chrome-Steel Guard, Heatproof
- Air-double filtration, with decompressor
- Double-reinforced abrasive Disk Ø 350 x 4 x 25,4 mm - Ref. **6098**
- Weights : Motor 17 Kg / Vice 5 Kg
- Reference : **TR4-14**
- On request : Abrasive Disk Ø 400 mm (Machine Ref. **TR4-16**)

For Abrasive Disk Ø 14"

- Sound Level : 102 dB(A)
- Delivered in Transport wooden Case



OPTION

- **Rail Cutting Machine with Ø 400 mm Disk** - Ref. **TR4-16**
- Abrasive Disk Ø 350 mm - Ref. **6098**
- Abrasive Disk Ø 400 mm - Ref. **6101**
- Protective Gaiters - Ref. **GP-4**
- Protective Goggles - Ref. **LPR**



MEASUREMENTS AND CONTROL EQUIPMENTS



■ Instrusment for measuring Rail Corrugation.....	1/7	■ Gauges for Track (Rail Measuring Devices).....	8/7
■ Torque Wrench Control.....	2/7	■ Gauges for Switches and Crossings (Turnouts).....	9/7
■ Rail Deflation Gauge Device / Track Level.....	3/7	■ Gauges for Switches and Crossings (SNCF Type).....	10/7
■ Gauges and Callipers.....	4/7	■ Alongside Plateform Rule.....	11/7
■ Multiple Controllers for NABLA and CIL Clips.....	5/7	■ Pegs in curve Control Rule.....	11/7
■ Odometer on rail.....	6/7	■ Gauge spacing of Wagon Wheels.....	12/7
■ Long Meters.....	6/7	■ Calliper Rail Wear.....	12/7
■ Devices for measuring Rail Wear.....	7/7	■ Rail Thermometers.....	13/7



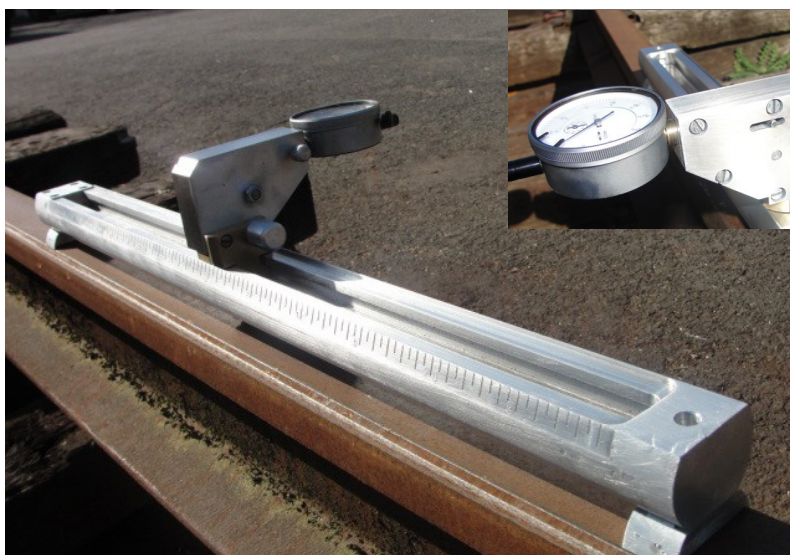
INSTRUMENT FOR MEASURING RAIL CORRUGATION

USE: Instrument for instantly measuring rail corrugation

ADVANTAGES: A very lightweight, accurate and easy to handle device.

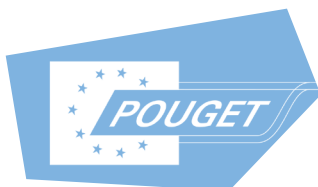
- Aluminium alloy body
- Accuracy = 1/100e mm
- The device is attached to the top of the railhead using 2 magnets.
- The user reads the rail corrugation on the scale dial placed above the device.

There are 3 Longitudinal Stroke Models : ▷ 280 mm Stroke Ref. **PAC-280**
▷ 500 mm Stroke Ref. **PAC-500**
▷ 1000 mm Stroke Ref. **PAC-1000**



OPTIONS

- **Wooden Case** with Lock and Transport Handles - Ref. **CO**



TORQUE WRENCH CONTROL

USE: Check the Torque of the Coachscrews, the Fishbolts and the Rail Bolts.

ADVANTAGES: Very Accurate and Reliable Equipment.

DYNAMOMETRIC WRENCH

- Capacity : from 7 to 35 daNm
- Total Length = 770 mm
- Drive Ø 3/4"
- Net Weight = 2.2 Kg
- Reference : **CDY** (supplied without socket)
- Supplied with rigid Box
- Total Weight 3 Kg



SOCKETS (Unit Weight 0.5 Kg) :

- Square** : 21 mm.....Ref. **136-A6**
23 mm.....Ref. **136-A5**
27 mm.....Ref. **137-C9**
- 6 pans** : 36 mm.....Ref. **137-C8**
38 mm.....Ref. **137-C7**
40 mmRef. **137-C9**

Options : Other Measuring Capacity until 150 da.Nm (on request)

HALF-MOON GAUGE

To check the tightening Torque for the Standard Installation

Net Weight = 0.27 Kg

Reference : **JC-1**



SET OF THICKNESS - WEDGES

Length of blades 90 mm

Width of blades 10 mm

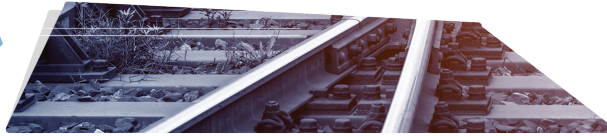
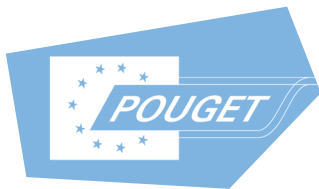
Quantity of blades 19

Thickness of blades in 1/10 mm

Net Weight 0.6 Kg

Reference : **JC-2**





RAIL DEFLATION GAUGE DEVICE - TRACK LEVEL

USE : Checking and Measuring the Rail Deflation → **RAIL DEFLATION GAUGE DEVICE**
Check the Superelevation of the Track and Various Inspection and Levelling Tasks
→ **TRACK LEVEL**

ADVANTAGES : Easy and Accurate Tools.

RAIL DEFLATION GAUGE DEVICE (SNCF Model)

- Body in Steel
- Brass Graduated Scale from 0 to 50 mm
- Galvanized or treated with bichromates for protection.
- Dimensions of Support Base = 14 x 16 cm
- With Handle
- Net Weight = 1 Kg
- Reference : **307**



TRACK LEVEL

- Steel Base
- Length 20 cm
- Flask Protected by an Unbreakable Rhodoïd
- Weight = 0.2 Kg
- Reference : **7**



OPTIONS

- **Aluminium Shoe** - Weight = 0.1 Kg - Ref. **71**
- **Track Level with Magnets** - Ref. **7-AM**

GAUGES AND CALLIPERS

USE: Various Inspections and Measurements (Controls)

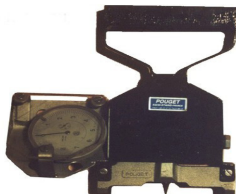
ADVANTAGES: Simple and Tough.

Portable POUGET TEST-NABLA (French clips)

Use to measure the curvature of the Nabla clip on the track after tightening.

- Measurement stroke = 10 mm
- Measurement accuracy = 1/10e mm
- Delivered with woodcase = 30x30x10 cm
- Weight of the device in the case = 4 Kg
- Reference : **PTN**

Direct Reading



GAUGE for inspecting the tightness of clips

« RN » (french clips) - Angled Model

- Scaled 0.3 to 5 mm
- Length : 150 mm
- Weight = 60 gr.
- Reference : **579-1**

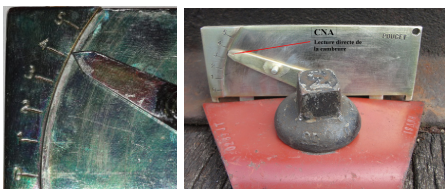


CAM INDICATOR (For Nabla Clips)

Scaled : 0 to 5 mm

- Weight = 0.260 Kg
- Référence : **CNA**

Direct Reading



GAUGE 3 points in for NABLA Clips

For New Track :

Standard Tightening 1.5 mm

Weight : 0.3 Kg

Ref. **G3P**



Double Tightening 1 and 1.5 mm

Weight : 0.3 Kg

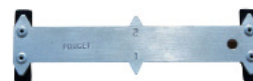
Ref. **G3P-2**



For Maintenance and Liberation : (controls 1 and 2 mm)

Weight : 63 gr.

Ref. **G3P-A**



MULTIPLE CONTROLLER for NABLA - CLIPS - Sheet No-5/7

CALLIPERS for inspecting the half-open

position of the switches

- 5/6/8 mm wedges
- Length 140 mm
- Aperture = 20.5mm
- Weight = 0.17Kg
- Reference : **585**



Gauge for Inspecting the Play of the Fishplate

- Scaled 1 to 20 mm
- Cadmium plated for protection
- Length = 230 mm
- Weight = 0.25 Kg
- Reference : **580**





MULTIPLE CONTROLLERS for **NABLA** and **CIL CLIPS**

These portable Instruments allow the direct reading for

- Control of measured tightening
- Control of tightening
- Elasticity Control

In Stainless-steel, with handle in insulated tube.

The 3 graduated scales allows a direct reading.

For **NABLA CLIPS** Ref. **CNAB** - Net Weight = 0.75 Kg



For **CIL-CLIPS** - Ref. **CCIL** - Net Weight = 0.60 Kg



ODOMETER ON RAIL - LONG METERS

USE: Measure lengths of track by travelling on the rail.

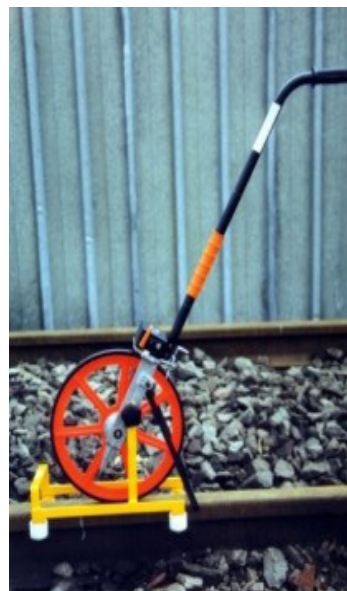
ADVANTAGES: Simple, tough and accurate device (Can be folded for easy transportation).

ODOMETER ON RAIL,

- Portable device with a base stand
- Ø 318 mm Rubber Wheel (1 Revolution = 1 meter)
- 2 Lateral Rail Roller Guides (in Nylon)
- 1 folding handle length unfolded : 1.10 m
- 1 meter from 0 to 9999 m with re-zero setting.
- Floor sizes with handle folded : 53 x 17 x 32 cm
- Net Weight = 3 Kg
- Reference : **OD-10**



PL1S-OD-10

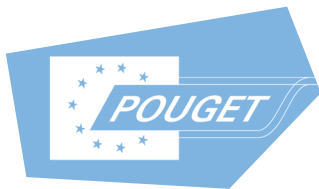


OD-10

LONG METERS,

- 2 Models
- Length 30 meters - Ref. **L-30**
- Length 50 meters - Ref. **L-50**





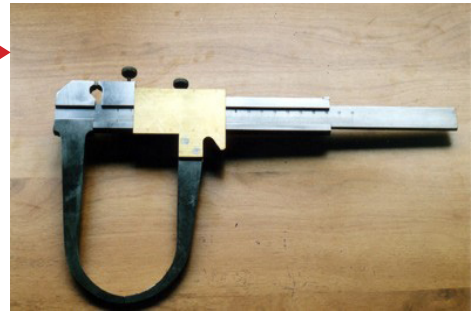
DEVICES FOR MEASURING RAIL WEAR

USE: Checking and Measuring Wear of the Rails.

ADVANTAGES: Accurate Device.

SLIDE CALLIPER RULE - ref. 1019

- All steel
- Scaled from 0 to 180 mm
- Total Length = 310 mm
- Width of Jaws = 70 mm
- Weight : ▷ Slide Calliper Rule = 0.75 Kg
▷ Wooden Case = 0.50 Kg



ASTRIDE CALLIPER - ref. 1020

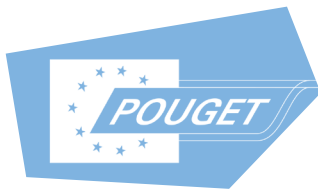
- It is laid on top of the rail to measure Vertical and Lateral Wear
- Stainless Steel
- Special Device for each Rail Section
- Weight : 1.4 Kg
- With **Level Control of inclination of the Rail**
(at 1/20e or at 1/40e) - Ref. 1022 - Weight : 1.3 Kg



CALLIPERS FOR MEASURING THE WEAR of the interior of rail - ref. 1021

- Fixed under the Skid of the Rail
- Weight 2 Kg





GAUGES FOR TRACK (RAIL MEASURING DEVICES)

USE: High-precision measure to check the track gauge and superelevation
(Tracks Renewal and Maintenance)

ADVANTAGES: Light (aluminium body) - integrated adjustable bubble level

STANDARD GAUGE - Ref. **GW-80**

This is a very accurate for the following direct readings and measurements

- Track gauge reading = -10 to +40 mm.
- Track superelevation reading = -40 to +200 mm
- Graduation mark = 1 mm
- Electrically insulated
- Dimensions : 1680 x 105 x 300 mm
- Net weight = 2.9 Kg for track gauge 1435 mm .



Immediate Reading

We can supply these Track Gauges Rules for
all Other Gauges (To specify)

Certificate of Calibration (on request)



« **Alongside platform** » rule, Check the positioning of the track in relation to the platform.

- Reference : **GW-85** (See Sheet No-10/7)

SNCF Type Rule Reference : **1NG**

Body in Duraluminium

With Separated Level (Ref. **7**) for Reading
of the Track Slope - Weight 3 Kg



Single standard gauge measure - Steel body

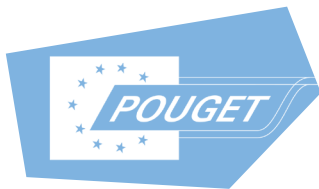
Reference : **11NG**

With Separated Level (Ref. **7**) for Reading of
the Track Slope - Weight 2 Kg



OPTIONS

- **Device for tram tracks : add ... TR**
- **Wooden case** = 13 Kg - Dimensions : 175 x 14 x 28 cm - ref. **CO**



GAUGES FOR SWITCHES AND CROSSINGS (TURNOUTS)

USE: High-Precision Gauge to measure the Switches and Crossings
(New Equipment or Maintenance Works)

ADVANTAGES: Direct reading : for all measurements - Integrated adjustable bubble level.

This is a very **accurate Rule** for the following direct readings and measurements

- Track gauge = -10 to +40 mm.
- Superelevation of the track = -40 to +200 mm
- Track guide = -10 à +10 mm
- Between Guard rails (1332 to 1365 mm for standard gauge)
- Width of switch opening (31 to 60 mm) size of switch tongue protection
- Accuracy of reading : 1 mm
- Sizes (for standard gauge) : 1710 x 105 x 250 mm
- Weight = 3.6 Kg (for 1435 mm track)
- Reference : **SW-9182**

We can supply theses Track Gauges Rules
for all Other Gauges (To specify)

Certificate of Calibration (on request)

See Options below



Rule for checking 1/2 Point and Crossings - Ref. 582, With 3 mm Checking Punch «Duralumin»
Body Nylon insulator on base, Length : 1.65 m - Weight 1.7 Kg
Length 1.65 m
(for Standard Track 1435 mm.)



Ref. K-125

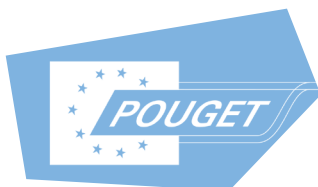


OPTIONS

- **Accessory** for checking of Point Protection - Ref. **K-120**
- **Wooden case** (175 x 14 x 28 cm) - Weight = 13 Kg - Ref. **CO**
- **Device for tram tracks** (add) - **TR**

- At 60° Square Rule for the Control of the Slope Running - Ref. **K-125**

SW-9182 Rule



«10-R» SNCF GAUGE FOR SWITCHES AND CROSSINGS (TURNOUT)

USE: High-Precision Gauge to measure the Switches and Crossings.
(For New Equipments, and for Maintenance Works)

ADVANTAGES: Direct reading for all Measurements.

The «10-R SNCF» Gauge is a very accurate Tool, and allows the following Direct Readings and Measurements :

- Track Gauge = -10 to +40 mm.
- Superelevation of the Track = -40 to +200 mm
- Track Guide = -10 to +10 mm
- Between Guard Rails = 1332 to 1365 mm (For Standard Gauge)
- Width of Switches Opening : 31 to 60 mm
- Size of Protection of Point into the Double Slips.
- Dimensions (for Standard Gauge) : 161 x 9 x 13 cm
- Weight (for Standard Gauge) = 7.6 Kg
- Reference : **10-R «SNCF»**

Track Gauge **Control**
and Superelevation



Control Track Guide between
Guard-Rails and Width of Switch-Opening



Accessory for Checking of Protection
of Point into the Double Slips



GAUGES CONTROL

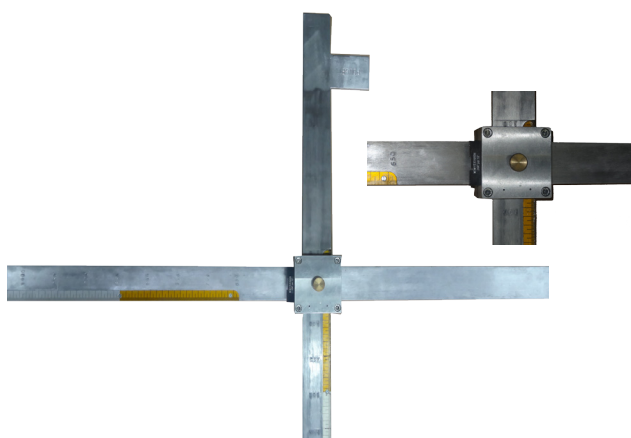
ALONGSIDE PLATFORM RULE

Made in aluminium
Double scale (horizontal and vertical) with level.

This rule allows to control the positioning of track regarding to the palteform.

Net Weight : 3 Kg

Reference : **GW-85**

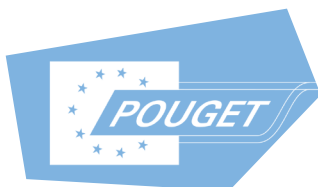


PEGS IN CURVE CONTROL RULE

- Made in aluminium, comprising
- 1 Horizontal support Bar with a millimetric reglet and a central level
- Graduations 830 to 1030 mm (for standard gauge)
- 1 Vertical Bar with handle (stroke 315 mm)
- Stroke 315 mm to counterbalance the cant of the Track
- Net Weight : 2.2 Kg
- Reference : **GW-86**



Horizontal Graduations



GAUGES SPACING OF WAGON WHEELS AND CALLIPER RAIL WEAR

USE: Check the distance between Wagon wheels (setting), Inner sides of the axles.

ADVANTAGES: Simple and accurate.

E.I. GAUGE (Measuring Tool for Spacing of Wheels internal and active Faces

- Body in Steel (paint : yellow) - «**SNCF**» Model
- End section in treated steel, interchangeable
- With integrated graduated Indicator
- Measurement capacity :  For Standard Gauge 1350 to 1390 mm - Ref. **RW-N**
 For Metric Gauge 900 to 970 mm - **RW-E**
- Direct Read Measurement Indicator - **Accuracy ± 0.1 mm.**
- Chrome Rotating Part
- Net Weight = 3 Kg (Standard Gauge) / 2.3 Kg (Metric Gauge)

Delivered in Iroko varnished wood case, with fasteners and handle.
(The gauge measure is placed on a foam cushion in the box).



CALLIPER FOR MEASURING THE RAIL-WEAR - Ref. 586

To indicate the rail-section





RAIL THERMOMETERS

USE: Measure the rail temperature, with tables for rails joints.
Length 18, 24 and 36 m (for expansion devices : See Charts)

ADVANTAGES: Simple and Accurate Devices.

FLAT THERMOMETER «SNCF» Model

- Aluminium Rectangular Body
- Scaled from -20 to +60° C
- Length = 145 mm
- Width = 28 mm
- Thickness = 12 mm
- Weight = 200 gr.
- Reference : **38**



CIRCLE THERMOMETER

- Body in brass Ø 10 mm with ring
- Graduations : -20° to +65° C
- Length = 154 mm
- Weight = 40 gr.
- Reference : **38-R**



THERMOMETER INTO A PIECE OF RAIL, with Handle and Cover Plate.
(This Device enables users to find out the Exact Temperature inside the rail)

- Length of rail = 170 mm
- Weight = 7 Kg
- References : ▷ with Flat **Thermometer ref. 38** ----- Ref. **39**
▷ with Circle **Thermometer ref. 38-R** -- Réf. **39-C**
(Supplied painted, to indicate the colour or no-painted)



OPTIONS

- **THERMOMETER with 2 stuck magnets** (to attach it to the rail) - Ref. **38-A**
- **Wooden Case** - Dimensions : 16 x 4 x 3 cm - ref. **38-CO**
- **Protective Leather Casing** - ref. **38-E**

LIGHTINGS



■ Light Balloon (fixed or on Tripod Leg).....	1/8	■ Ultra-powerful Lighting Set.....	5/8
■ Movable Lighting Set.....	1/8	■ Portable Lightweight Lamp.....	6/8
■ PA-1 Self-contained Projector.....	2/8	■ Signal Lamps «4 colours».....	7/8
■ Site Floodlight.....	3/8	■ Other Signal Lamps.....	8/8
■ Front Light.....	3/8	■ Movable Lighting Sets.....	9/8
■ Movable Lighting Sets.....	4/8	■ Protection Red Lamp.....	10/8

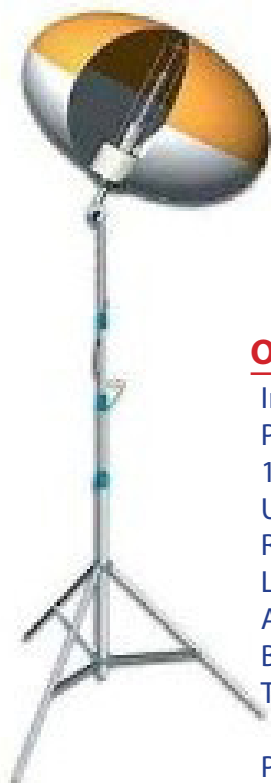


LIGHTING BALLOON (fixed on Leg Tripod)

This Balloon has been specially studied for track works and the swift rescue actions. It comprises a blowing-up device by over-pressure inside of an Elliptical Balloon, and a Powerful Halogen Lighting protected by a Grate.

The Blowing-up and Switching on are automatic in 45 seconds.

IMPROVING OF THE WORKING ZONES BY A NO-DAZZLING LIGHT



SUPPLY 230 V
POWER 20000 W
DIAMETER 1.10 m

Other characteristics

Intensity	10 A (Safety by fuse-block)
Protection index	IP. 43
1 p. Halogen lamp bulb	2000 W
Useful life	1000 H
Resistance to wind	100 km/H
Lighted area	1400 m ²
Adjusting of height	2.5 to 5 m
Blowing-up time	45 secondes
Total net weight	16 Kg (with tripod) 20 Kg (with heavy foot)
Packing	Plastic tube Ø 30 cm - Length 115 cm Weight 8 Kg
Reference	BEC



MOVABLE LIGHTING SET REF. **GEC**

comprising:

- 1 pc. **BEC** Light Balloon (above)
- 1 pc. **PL1S** Manual lightweight platform Trolley (See Spec. 4/4)
- 1 pc. Petrol Generating Set **GE-3** (3KW) - See Sheet No. 24/1





PA-1 SELF-CONTAINED PROJECTOR

USE : For night works, and into tunnels..

ADVANTAGES : The PA-1 projector with double lighting power is very compact, easy to be carried, to start and re-charge.

The **PA-1** presents a portative lighting allowing to work always hand-free.

Battery	12 Volt 24 Ah.
2 Powers	35 Watt : Lighting Range = 5 h. 90 Watt : Lighting Range = 1 h
Dimensions	242 x 242 x 930 mm (mini.) - 1930 mm (Maxi.) Height
Weight	15 Kg

LIGHTING Intensities

35 Watt = 600 lumens
90 Watt = 2 200 lumens



- 1** The **projector** is equipped with two halogen bulbs 35W and 90 W allowing to choose the need lighting power.
- 2** The **mast**, in aluminium alloy is equipped with a retractable device without shock.
- 3** The **Battery** (waterproof) 4x 6 volt, 12 Ah. Without maintenance. Into the bulb, a device protects the complete unloading of the battery.
- 4** **Box of battery**, in steel sheet. with an handle. Gloss finish orange-coloured.

- 5** **Cable winding-collig**, incorporated with the bulb. Here, it's possible to see the break switch allowing to choose the lighting power (35 W or 90 W)
- 6** **Charge's receptacle**
- 7** **Small tool box**. very useful to keep all the working tool
- 8** **Charging-up** of the Battery,
- Ref. **CHPA-1**.
Charger 230 V - / 6 A . Recharging in 5 h.



SITE FLOODLIGHTS - FRONT LIGHT

USE: For Night Works (or in Tunnels).

ADVANTAGES: Efficient Lightweight and Waterproof. Very cheap Equipment.

TELESCOPIC HALOGEN Light on Tripod **PR-1** - 230 V - 2 x 500 W = 1000 W With :

- Protective Grid
- Standard Cable, Length 5 m (on request : 10 m or 20 m)
- Maxi Height = 2 m. (on request : 3 or 4 m)

Spare parts : on request 500 W Halogen Lights / Grid

- ▷ **Major Luminosity Power** with Halogen Lighths
- ▷ Small Release
- ▷ Maximum Lighting
- ▷ White Light no dazzling
- ▷ Low-Consumption
- ▷ Handle with Double Function :
 - Ensure an easy Transportation
 - Use for Clip of Cable
- ▷ Multi-Positionning
- ▷ Complete net Weight : 12 Kg (for Height 2 m)



BATTERY-OPERATED FRONT LIGHT LFP with Folding Strap and Swivel-mounted Reflector .

- Major Luminosity Power with Leds.
- Life 150 h
- Very Low-Consumption
- 3 x LR. 3 Batteries (supplied)
- Lighted Area : 50 m²
- Weight : 90 gr.





MG MOVABLE LIGHTING SETS

USE : For night works, in tunnel, or for assistance.

AVANTAGES : Self-equipment, compact and silent. Removed everywhere by a single man. Improved safety : there is not cable on ground.

GENERATOR : Petrol engine 4-stroke HONDA
Alternator 230 V - 50 Hz
with battery-stoker 12 V
Sound intensity : 83 dB(A)

LIGHTS : Telescopic and dismountable in 2 parts
Adjustable elevation from 1.4 m. to 2.7 m.
Halogen lights or fluorescent
Tight and orientable lights (Protection class IP-55)
with protection anti-impact.

The set is equipped on a frame in steel protector tubes, with 2 folding hands for transport, and 2 inflating rubber wheels Ø 250 mm (Wheels centers : 35 cm.), allowing the circulation on narrow side path.



GENERATING SET POWER (W)	LIGHTS	NET WEIGHT of Complete Lighting Set KG	MODEL
600	1 Halogen Light 500 W	30	MG-1
1000	2 Halogen Lights 500 W each	35	MG-2
600	1 Fluo Light 72 W with polycarbonate diffuser	32	MG-3
600	2 Fluo Light 72 W with polycarbonate diffuser	35	MG-4



Dimensions of the folder Set (overall length) :

- Length : 62 cm
- Width : 52 cm
- Height : 58 cm



« MOBEC » ULTRA-POWERFUL LIGHTING SET

MAIN CHARACTERISTICS

Petrol Generating Set

Power **6.4 kW - 230 V**

Trailer on tyres with brakes and stabilizers.

Telescopic **Mast Height 5 m.** with manual rack.

Balloon 4000 W diameter 1 m. with ball joint.

Resistance to wind = 100 Km/h

Weight : 200kg



MOBILE

« MOBEC » can be handling moved. Its heels for any ground allow access on uneven or muddy soils. It can be moved on trailer, or on manual / or motorized Platform : (See **Track Option** - see below)

RELIABLE

With 2 separate circuits, you will never be on dark. The balloon is also in conformity with the European Regulations for the electrical Norms and the Workers's Protection.

TRACK OPTIONS

The «**MOBEC**» can be put on light-transport **platform POUGET** (manual or motorized)

To see sheets **3/4** and **4/4**, for the circulation on track, and the lighting of night works.

STRONG

The Balloon has been studied to be proof against many handling. Inflated by air, it is totally waterproof whatever position it has on the ball joint. Real air cushion, the inflated cover will protect the balloon against all violent shock or falling.

EASY TO USE

Very compact, the « MOBEC » asks few handling for the starting up.

FAST

The « MOBEC » allows a fast moving on the sites to light. On site, the balloon inflates in 45 sec. It's immediatly operational.

EFFICIENT TOOL

The power of only one balloon is equivalent to the power of several projectors, because it is more productive for an equivalent power.



UNIFORM AND NO-DAZZLING

Ideal for the working facilities and for worker's safety.

Transporting position



PORTABLE SUPERLIGHTWEIGHT LAMPS

SAFETY PROJECTOR RANGE : **150 m.**

- Unbreakable Plastic Case with Handle
- Pivoting Head
- Plomb Accumulator without Maintenance and Rechargeable.
- Protection Index : IP-54

DIMENSIONS

Height (mm)	Width (mm)	Thickness (mm)
245	120	104

NET WEIGHT 1.1 kg



2 Models :

L6F-1	Halogen Lamp
L6F-2	Light-Emitting Diode (Life : 50 000 h.)



SIGNAL LAMP **L2F** - 4 COLOURS

USE : Signals during the Works on Track.

ADVANTAGES : Strong Materials, and very Safe

- 4 colours (Red, White, Green, Yellow)
- Protection degree : IP40
- Double insulation
- Unbreakable Plastic Case
- Incorporated Charger of battery
- Charger in 230 V - 50/60 Hz
- Term of recharging : 24 hours
- 1 On/Off Button
- 1 Intensity Button (low / double)
- Working Temperature : -10° C +40°C
- 1 Security Lighthouse with a tight rechargeable battery, equipped of two light-origines :
 - 1 Powerful at Xenon (6 W)
 - 1 Glow-lamp (1.5 W)



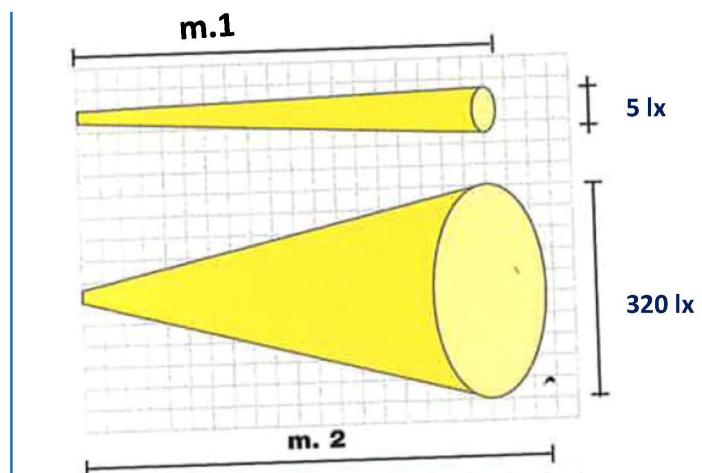
Spare Parts :

Colour Screens :
(Red, Green, Yellow, White)

- Autonomy : 4 hours (Main Light) and 12 hours (Auxiliary Light)
- Dimensions = 26 x 12 x 17 cm
- Net Weight = 2.1 Kg
- SPARE PARTS :
 - Bulb 1.5 W - Ref. **B-15**
 - Bulb 6 W - Ref. **B-6**

(Part of SEC-1 Track Security Set - Sheet 10/9)

L2F SIGNAL LAMP DIAGRAM



SIGNAL LAMPS

USE : Signal during the Work on Track.

ADVANTAGES : Strong Materials, and very Safe.

L2F Electric 220 V, Rechargeable Light

(Details on Sheet 7/8)

- Unbreakable Plastic Case
- Incorporated Battery Loader
- 1 On/Off Button
- 1 Single / Double Intensity Button
- Sizes = 26 x 12 x 17 cm
- Weight = 2.1 Kg

(Part of SEC-1 Track Security Set - 10/9)



Spare Parts :
Colour Screens :
(Red, Green, Yellow, White)

L5F Electric Light (with Rechargeable Battery)

- 1 Rotatory Commutator
- 3 Lights : Red - White - Green with reflector
- with battery 3.75 V Ni - Cd
- Unbreakable Case
- Weight = 2.7 Kg



OPTION : Charger of Battery - Ref. **CHL5F**
Battery - Ref. **BAL5F**

L2F-B TAIL LAMP

- On front : 1 White Light + 1 Red White
- With a Switch for each Light
- Supplied with one Battery 9 V
- Unbreakable Plastic Case with Handle
- And UIC-Hook, on Rear-Side



L7F RED Lamp for Railways Works

- Double face dia. 180 mm
- Supply with 2 Batteries 6V
- Diodes high efficiency
- Lighting-Head orientable on 360°
- (fixing or blinking) with a rear-hook.
- Dimensions : 36 x 18 x 8 cm
- Net Weight with batteries : 1.8 Kg





MOVABLE LIGHTING SETS

This **Movable Lighting** Set is equipped with :

- 1 **POUGET Manual Platform Trolley PL1S** (SNCF agreed) with an Automatic Brake of Security Load Capacity 500 Kg (See Spec. 3/4)
- 1 **Generating Set GE-3** powering by 1 Petrol engine- 4 stroke strap on the Platform Trolley PL1 S, Power 2500 W (See Tech. Spec. 6/1)
- 1 **Lighting Device**, Power 2000 W, on Legs secured to the Platform Trolley and Collapsible for Transport Equipment.

Type **GEC-2**

2000 W Telescopic **Halogen Spotlight** (4 x 500 W)
Height adjustable up to 2.6 m above rail.

- Platform-Trolley - Ref. PL1S (61 Kg) - Spec. 4/4
- Generating Set - Ref. GE-3 (56 Kg) - Spec. 24/1
- Halogen Spotlight Ref. PR-1 (x 2) - (24 Kg) - Spec. 3/8



Type **GEC**

2000 W Telescopic **Lighting Balloon** Ø 110 cm
Height adjustable up to 2.5 to 7 m. above rail.

- Platform-Trolley - Ref. PL1S (61 Kg) - Spec. 4/4
- Generating Set - Ref. GE-3 (56 Kg) - Spec. 24/1
- Light Balloon - Ref. BEC - (20 Kg) - Spec. 1/8





L7F PROTECTION LAMP

Lamp for Railways Works - RED - Double face dia. 180 mm

Supply with 2 Batteries 6V

Diodes high efficiency

Lighting-Head orientable on 360° (fixing or blinking) with a rear-hook.

Net Weight with batteries : 1.8 Kg

Dimensions : 36 x 18 x 8 cm

Reference : **L7F**



Spare Parts : Battery 6 V - Ref. **BL7F**

HYGIENE, SAFETY PROTECTION AND SIGNALLING



■ Electro-Pneumatic Warning Signal.....	1/9
■ Other Warning Signals.....	2/9
■ Mobile Safety Barriers.....	3/9
■ Switch Rail Key Lock.....	4/9
■ Safety Helmets.....	5/9
■ Protection Goggles.....	5/9
■ Protective Gaiters.....	5/9
■ Safety Jackets.....	6/9
■ Signal Flags.....	7/9

■ Signal Lamps and Draughtboard.....	8/9
■ Security Detonator - Red Flare.....	9/9
■ Track Security Set.....	10/9
■ Mobile Track Vacuum Exhauster.....	11/9
■ Shunt Bar.....	12/9
■ Shunt Cable.....	12/9
■ Linking Cable.....	12/9
■ Socket on rail.....	12/9



SLJ-9[®] ELECTRO-PNEUMATIC WARNING (Registered)

USE: Protection of the Workers on Track (Day and Night).

ADVANTAGES: Very Light Equipment, Efficiency and Easy to operate with an Automatic Incorporated Recharging Device.

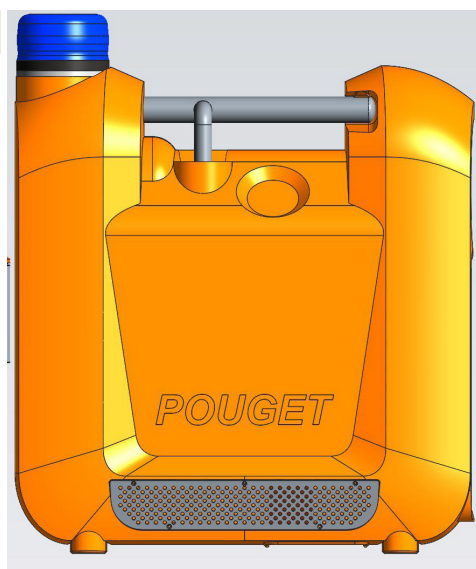
MAIN TECHNICAL CHARACTERISTICS

1st ELECTRO-PNEUMATIC WARNING SIGNAL (Patented)

- Hand and Remote Controls
- With Manual-Emergency Pump

ACOUSTIC POWER : 120 dB (A)
FREQUENCY : 388 Hz
OPERATING PRESSURE : 5/8 Bars
With 2 Batteries 12 V (rechargeable 230 V)
DIMENSIONS : 43 x 15 x 45 cm
TOTAL WEIGHT : 9 Kg

A MODERN WARNING
... FOR YOUR SECURITY



OPTION: Safety Hearing Helmets for the Operating Agent - Ref. **CAB-1 / CAB-2**



WARNING SIGNALS

USE: Compulsory Protection for Workers on Tracks. It provides Warning of the Arrival of a Train on near by Track, travelling at Normal Speed.

ADVANTAGES: Highly Safe Equipment and Efficiency Equipment.
(**COMPULSORY** for all Track Works)

1 tone MANUAL WARNING SIGNAL - Ref. 1034-1

- ACOUSTIC POWER = 110 dB at 5 m.
- Frequency = 388 Hz
- Operating Pressure = 3 to 8 Bars
- Tank Capacity = 8 l.

The Complete Device includes :

- 1 Hand Pump
- 1 Air Tank with Pressure Gauge
- 1 Call Button
- 1 Wheel for transporting along the Track
- Weight 16 Kg
- Paint in yellow varnish



2 tones MANUAL WARNING SIGNAL - Ref. 1034-2

OPTION : SAFETY HEARING HELMETS for the Operating Agent - Ref. CAB-1 and CAB-2

SLJ-9 ELECTRO-PNEUMATIC WARNING SIGNAL - (Sheet No. 1/9)

Lightweight Warning Signal Type T

With Direct Operating Lever
Acoustic Power 118 dB at 5 m.
Paint Yellow Varnish
Weight 7 Kg



WARNING SIGNAL

with Gaz - Ref. AVP
113 dB at 3 m
110 dB at 5 m
Weight 0.5 Kg



Horn (Body in Brass)

Type «SNCF» - Length 35 cm
Weight 0.26 Kg - Ref. 1038
(This Device is Part of
Set of Security SEC-1 -Sheet No. 10/9)

SPARE PARTS

Tip of the Horn
Ref. 1038-E





MOBILE SAFETY BARRIERS BMS (Patented)

USE : Physical Protection for Operating Agents on Tracks.

ADVANTAGES : Lightweight, Effective and very easy to install and transport.

- These Barriers are equipped with Safety Devices enabling trains to travel at High Speed on the neighbouring Track without any Risk for the Operating Agents.
- Possibility of working without Risk of tipping.

1 **Mobile Safety Barrier** equipped with :

- 1 Handle Platform (30 Kg)
- 1 Platform Trolley with Automatic Brake Ref. **PL1S-PC** «**SNCF**» **Agreed** (Weight 59 Kg)
- Easily Dismountable Lateral Barriers (in Panel of 3 m.)
- Each Panel (3 m.) is folded in **2 parts of 1.50 m.** , Can be Transported in Truck (**Weight 19 Kg**)

Space of free evolution on the Track inside the Mobile Barrier

(m)	In all A LUMINIUM S TRUCTURE	TYPE
3		BMS-1
6		BMS-2
9		BMS-3



Transport Platform Trolley Ref. **PL1S-PC**,
with Adjustable Control Lever in Length

Load Capacity : 500 Kg

See the Details on the Technical Specification No. **4/4**



OPTION

- Safety Barrier with Device fixed on rail - Ref. **BMR** , equipped with aluminium panel (3 m.)

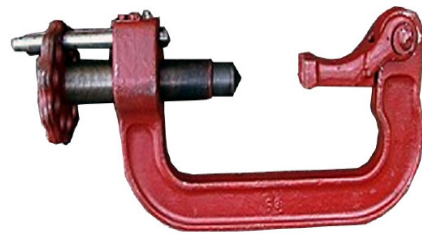


SWITCH RAIL KEY LOCK

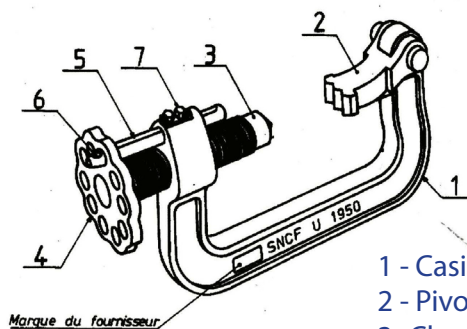
USE: Locking Switch and Crossings

ADVANTAGES: Highly Safe Equipment in forged steel (does not engage the track gauge).

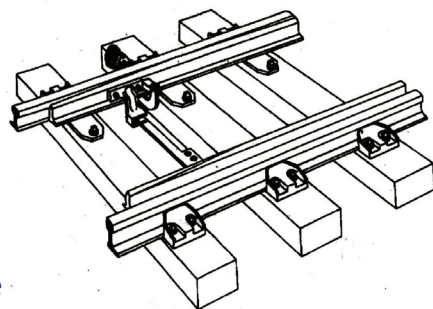
- Model French Railways « **SNCF** »
- Screw stroke : 100 mm
- 10 locking positions
- The screw is made from hardened steel with a 120° pointed end (Small Thread)
- Pivoting Rear Shoe
- Paint : brown varnish
- Overall Length : 40 x 20 x 10 cm
- Weight : 5.7 Kg
- Reference : **271**



Type 1950 Switch Rail Key Lock
(Claw 2 in Normal Setting Position)



Setting on turnout
(Fixed of the left tong)



- 1 - Casing
- 2 - Pivoting shoe
- 3 - Clamping Screw
- 4 - Clamping Hand Wheel
- 5 - Locking Rod
- 6 - Hole for Pad Lock
- 7 - Guidage screw of the rod rep. 5

OPTION

- Trapezoïdal Threaded Screw (minimum quantity = 20 p.) - Ref. **271-FT**



SAFETY HELMETS, PROTECTION GOGGLES, PROTECTIVE GAITERS

USE: Their Use is compulsory for Grinding and Cutting Rails Works.

SAFETY HELMETS

With Rod-up Visor - Ref. **CPV**

(Adjustable 51 to 62 cm)

Colours available : White, Yellow, Blue, Red.

Weight : 0.58 Kg

Without Visor (51 to 62 cm) - Ref. **CP**

Colours available : White, Yellow, Blue, Red.

Weight : 0.4 Kg



EAR PROTECTORS - Ref. **CAB-1**

Electrically insulated , with Adjustable Arch.

Highly Protection

Allows to pass the Frequency Voices and Important Signals.

Noise Reduction : **33 dB**



EAR PROTECTORS - Ref. **CAB-2**

To clamp on Safety Helmet Ref. **CP** ,
can be pivoted on back in case of offservice.
Waterproof, without inconvenience on the Ears
Supplied with two Adapters suitable for all the
Standard Helmets.

Noise Reduction : **28 dB**



PROTECTIVE GAITERS

All Leather - Ref. **GP-4**

with Laces and Buckle

Weight of Pair of Gaiters : 0.7 Kg



PROTECTIVE GOGGLES

Unbreakable - Ref. **LPR**

with Elastic Strap to clamp





SAFETY BELTS AND JACKETS

USE: COMPULSORY for all Operating Agents moving along the Track.

SAFETY JACKET IN ORANGE PHORESCENT NYLON

Type «SNCF» Ref. **PMM**

Sleeveless

With 2 Reflective Stripes

Height = 70 cm

Developed Width = 130 cm

Weight : 0.14 Kg



WHITE SAFETY JACKET

in Cotton Cloth - Ref. **WJ**

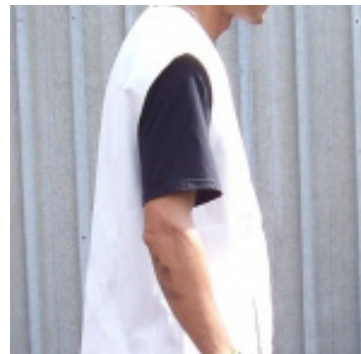
Sleeveless

Medium Size

Height = 70 cm

Weight = 0.2 Kg

(For Safety Agent on Track)



WHITE-SAFETY JACKET with YELLOW-BLACK PHOSPHORESCENT STRIPES

Ref. **VPBP**

Sleeveless

Height = 70 cm

Medium Size Developed Width = 130 cm

Weight : 0.2 Kg

(for day and night Works)





SIGNAL FLAGS

USE: Signaling at Work Sites

ADVANTAGES: Tough and Durable.

RECTANGULAR FLAG - Ref. **DRP**

Dimensions : 500 x 650 mm in synthetic Material
With Wooden Handle, length 0.70 at 1.20 m
Colour available : **Red**, Green, Yellow and White
Weight = 0.5 Kg

with Conical Metallic Tip - Ref. **DRPM**

Part of **SEC-1** Set of Track Security (Sheet No. **10/9**)



TRIANGULAR FLAG - Ref. **DRPT**

With Wooden Handle, length 1 m
Red Synthetic Material
Width of the Base 0.6 m.
Weight = 0.40 Kg



FLAG WITH SUPPORT fixed on rail

Ref. **SDRP**

Weight = 1.5 Kg



LIGHTING BLUE STICK - Ref. **BEB**

Total Length : 54 cm
Permanent or Flashing Lighting
Weight : 0.4 Kg - (supplied without Battery)
Provided for 2 Batteries 1.5 V



OPTIONS

- **Conical Metallic Tip** allows to place the Flag into the Ballast.

- ▷ for **Rectangular Flag** - Ref. **DRPM**
- ▷ for **Triangular Flag** - Ref. **DRPTM**

- **FLAG-HOLDER** with Shoulder Strap (all-leather)- Réf. **PRP**
- **ROLLING KNAPSACK** (See Sheet 49/3)





SIGNAL LAMPS AND DRAUGHTBOARD

USE: Signals during the Works on Track.

ADVANTAGES: Strong Materials, and very Safe.

Electric 220 V, Rechargeable Light - ref. **L2F**

- Unbreakable Plastic Case
- Incorporated Battery Loader
- 1 On/Off Button
- 1 Single / Double Intensity Button
- Screen 4 colours (Red-White-Green-Orange)
- Sizes = 26 x 12 x 17 cm
- Weight = 2.1 Kg



(Part of **SEC-1 Set of Track Security**
Sheet No. 10/9)

Electric Light (with Rechargeable Battery) - ref. **L5F**

- 1 Rotatory Commutator
- 3 Lights : red - white - Green with Reflector
- with Battery 3.75 V Ni - Cd
- Weight = 2.7 Kg

OPTION : Charger of Battery - Ref. **CHL5F**
Battery - Ref. **BAL5F**



TAIL LAMP

- On front : 1 White Light + 1 Red White
- Width a Switch for each Light
- Supplied with one Battery 6LR20
- Unbreakable Plastic Casewith Handle and UIC-Hook, on Rear-Side
- Ref. **L2F-B**



L7F RED Lamp for Railways Works

- Double face dia. 180 mm
- Supply with 2 Batteries 6V
- Diodes high efficiency
- Lighting-Head orientable on 360°
- (fixing or blinking) with a rear-hook.
- Dimensions : 36 x 18 x 8 cm
- Net Weight with batteries : 1.8 Kg



Spare Parts : Battery 6 V - Ref. **BL7F**

Metallic Signal Draughtboards

White-Red - Ref. **DBR**

White-Blue - Réf. **DBB**

Weight : 2.5 Kg

With Support fixed on rail :
Ref. **SDBR** for the White/Red
Ref. **SDBB** for the White/Blue





SECURITY DETONATOR AND RED FLARE

SECURITY DETONATOR - Ref. 1036

Ø Detonator = 52 mm
Crimped Brass Cap
Explosive Powder 10 gr.
with 2 Clips to the Rail
Net Weight = 60 gr.



Supply in wooden cases of 25 pcs (Weight 2.85 Kg)

OPTION : Wooden Case with locking containing 6 Detonators - Ref. **C-1036**
500 x 90 x 65 mm - Weight 1.68 Kg

USE : Protects Work-Site from Travel on it.

*These Devices are parts of **SEC-1**
Set of Track Security (Sheet No. 10/9)*

RED FLARE (8 min.) - Ref. 1037

Ø 48 mm Flare
Length 550 mm
RED Lighting Time 8 minutes
Net Weight = 1.14 Kg



USE : Warning Flare in Case of serious Accident or Incident on the Track.
Use by Date = Given on each Flare
The Device has a hard, Waterproof Plastic Sleeve.

NOTA IMPORTANT :

- **TRANSPORT** : These are Explosives and therefore may only be transported subject to very strict conditions. You will need special insurance.
- **PACKING** : Wooden Case
- **CONSERVATION** : Keep in cool dry Place

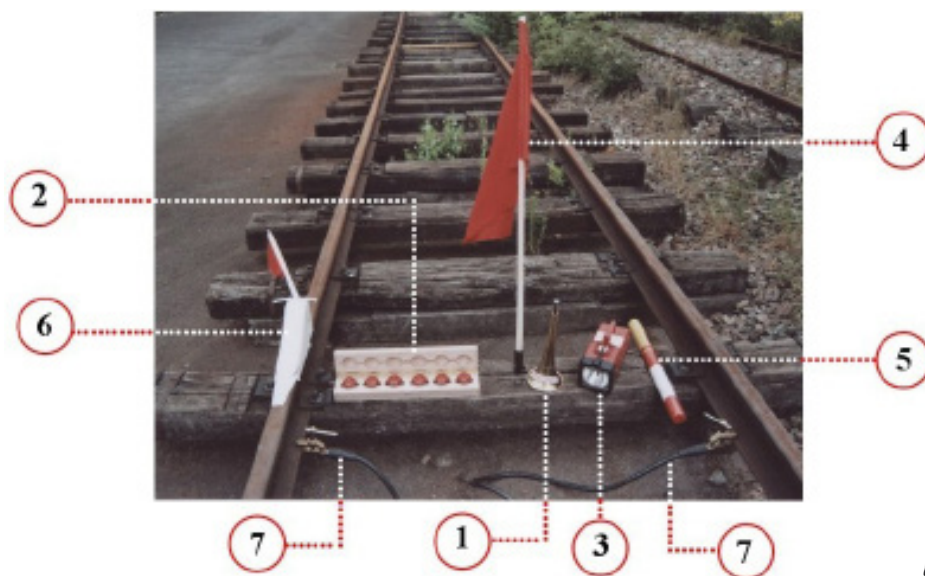


SEC-1 TRACK SECURITY SET

This Set of Security SEC-1 is compulsory for all tracted Materials circulating on Track and for all Works on Track.

It comprises :

Rep.	Désignations	Spec. No.	Reference	Weight Kg
1	1 Horn , length 350 mm	2/9	1038	0.26
2	1 Wooden Case with 6 Security Detonators . Dimensions : 500 x 90 x 65 mm	9/9	C-1036	1.68
3	1 Signal Lamp 3 Lights rechargeable 220 V Dimensions : 26 x 12 x 17 cm	7/8	L2F	2.1
4	1 Red Flag , Length 1 m. with Conical metal Tip	7/9	DRPM	0.65
5	1 Red Flare 8 minutes Ø 50 mm x length 540 mm	9/9	1037	1.14
6	1 Safety Movable Brake with Red Flag Length of the Block : 42 cm Total Length with the Flag : 91 cm The Flag may be standing perpendiculary to the Track.	41/3	11MA	3.2
7	1 Shunt-Cable of the Rails , Length 2 m. (electrically insulated), with 2 Tightening Rail-Clips. Maxi amperage : 270 A	12/9	CS-1	3



OPTION :

ROLLING KNAPSACK for Transport of the
Track Security Set and hand Tools
Dimensions : 55 x 38 x 25 cm
Weight = 4 Kg
Ref. **SDR**





AM-2 MOBILE TRACK VACUUM EXHAUSTER

USE: Vacuum and recover (into plastic dustbin) all waste ...
(Bottles, rags, cigarettes butts, etc...) on Tracks, Stations, etc...

ADVANTAGES: Simple, Effective and very economical Device for Track Cleaning in Stations.

The **AM-2** Mobile Track Vacuum Exhauster includes :

- 1 Depression Vacuum driven by a Petrol Engine HONDA 11 HP, with a Turbine Ø 400 mm mounted on a steel frame (can be easily dismantled)
- 1 Container on wheels (Capacity 360 l.)
- 1 Vacuum Hose Ø 200 mm (Standard Length)
- 1 Platform Trolley Ref. PL1S, with Automatic «dead-man» brake (Sheet No. 4/4) for transport on track.
- Dimensions (for Standard Track Gauge) = 175 x 75 cm
- Standard Length of Vacuum Hose = 5 meters
- Weight = 130 Kg



NOTA IMPORTANT :

- The Vacuum Extraction of Sand is possible, if it's not damp.



SHUNT-CABLE AND LINKING CABLES

USE: Shunt of two Rails during the Track Works, and of Signalling.

ADVANTAGES: Total Security Materials.

SHUNT-BAR - Ref. **BS-1**

«SNCF» Model, with two Hardened-Steel Nibs
A Strong Spring on a Hard Pression on the two Nibs.
Aluminium Body, with Handle
Length closed = 1.48 m.
Length in Track 1.55 m.
(for Standard Gauge = 1 435 mm)
Weight = 3.2 Kg

OPTION: Transport Wooden Case - ref. **CBS-1**



in Track Position



In Closed Position

SHUNT-CABLE - Ref. **CS-1**

Cable Length 2 m.
Electrically insulated
with 2 Clips on Rails
MAXI Amperage 270 A
Weight : 3 Kg



Part of Set of Track Security - ref. **SEC-1**

LINKING CABLE - Ref. **CCE**

Length. 2 m / 270 A
for electrical continuity of rails with 2 bronze Clamp
Brackets screwed on flange of rail



SOCKET ON RAIL - Ref. **PMR**

Intensity 600 A
Clamping on Flange of rail.





NOTES



NOTES



NOTES



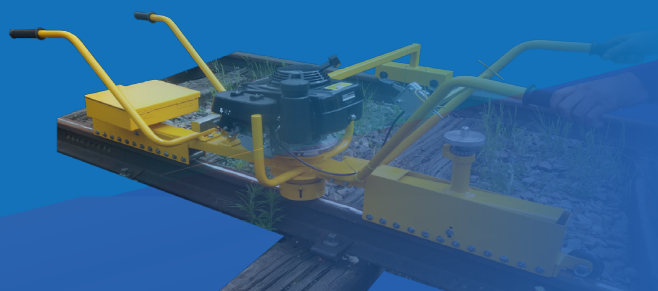
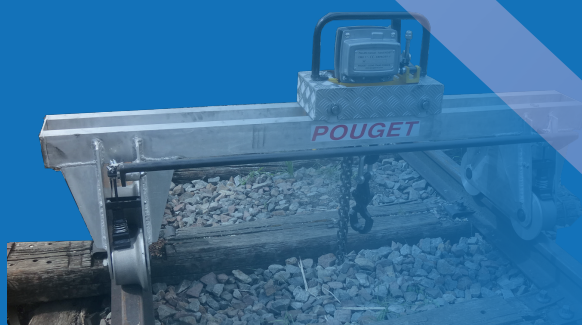
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