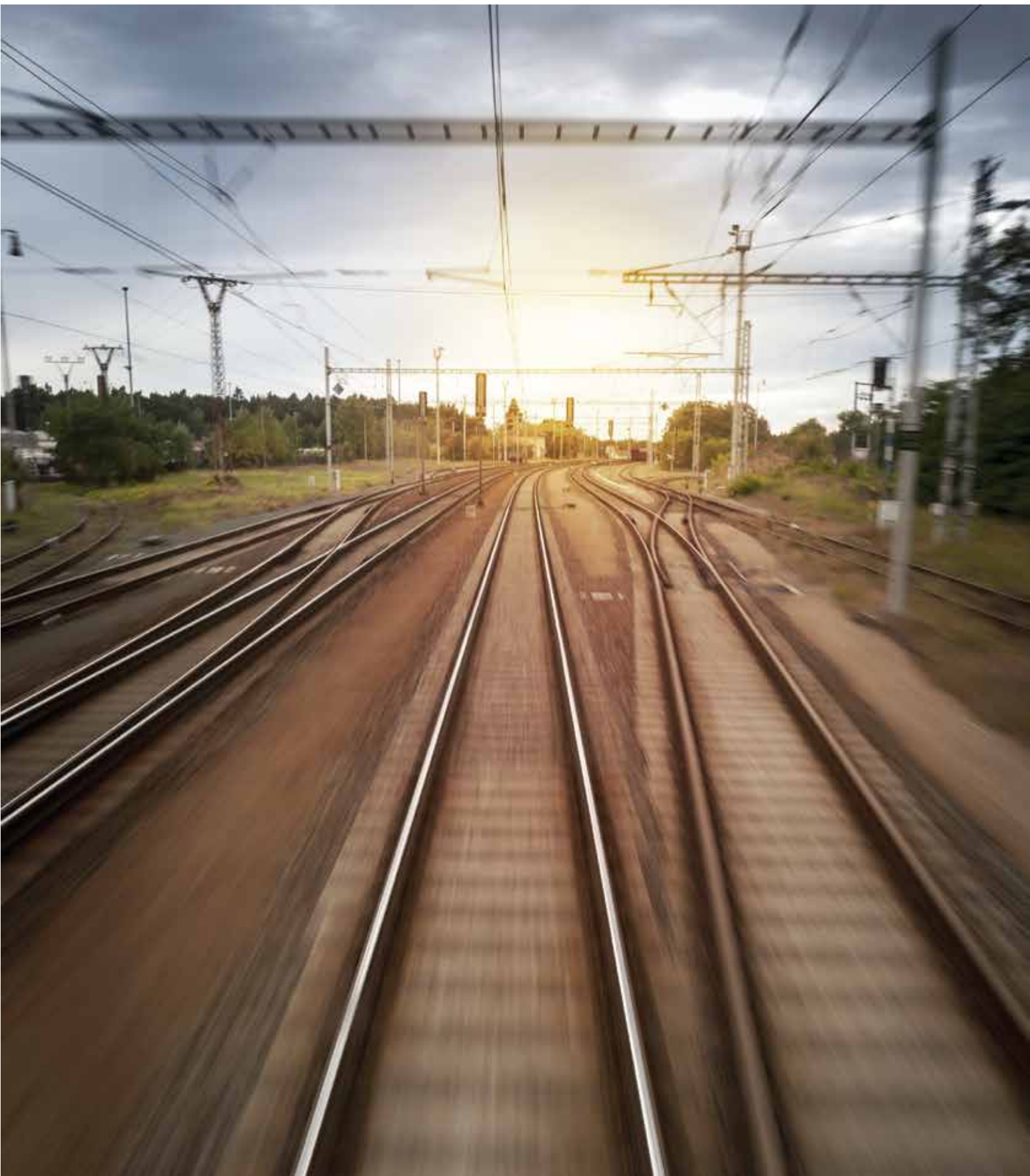


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Technes S.r.l.

SOLUTIONS FOR RAILWAY



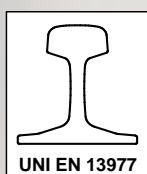
DIPSA Technes, based in Bologna (Italy), since 1992 designs, manufactures and sales, with proven expertise, machine, vehicles and equipments (some of which are patented) for construction and maintenance of railway track. In cooperation with best suppliers in mechanical engineering and electronics DIPSA Technes can successfully meet many challenges in railway industry, with flexibility, competence and customer orientation. "Machines, vehicles and equipments" mean a product range that includes both the small device and wagons or convoy of railway wagons with specific functions.

DIPSA Technes is a small company strongly focused on innovation, which allowed in few years an increase of product quality from the technological point of view and in R&D.

Specially, Dipsa Technes designs, produces and sales specific railway equipments (some of which are patented), spare parts, prototypes and machines based on customer specification, on-site assistance with its own personnel, maintenance of transport and railway equipment.



UNI EN 15085-CL4





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SUMMARY

This catalogue is intended to provide an overview and technical data of some of the machines produced by Dipsa Technes. A wide range of machines is not included in this catalogue. Please visit our website for more information about our production.

FOP - PORTABLE SLEEPERS DRILLING MACHINE

IOL - HYDRAULIC SCREW MACHINE

IES1 - SUPER-LIGHT ELECTRONIC SCREW-SPIKING MACHINE WITH TIGHTENING CONTROL

IES2 - SUPER-LIGHT ELECTRONIC SCREW-SPIKING MACHINE FOR VOS-SLOH COUPLING

MAB - PORTABLE PETROL ENGINE SCREWDRIVER

SAP4 - FOURFOLD PANDROL FITTING MACHINE

SAP2 - TWOFOLD PANDROL FITTING MACHINE

CEM-T - WHEELCHAIR LIFTING TROLLEY

PSL1M - TROLLEY LIGHT VERSION

TAT1 - HYDRAULIC SHEARS

SPARE PARTS - DIGGING CHAINS FOR BALLAST CLEANER MACHINES

FOP

PORTABLE SLEEPERS DRILLING MACHINE



FOP



The FOP sleeper drilling machine is equipped with a spindle with a quick release tip system. During operations the tip is protected by a telescopic, spring actuated, system which allows the chip flow. The machine is also designed to be mounted on an aluminum support with three isolated wheels; an actuator maintains the FOP always suspended, making it easy to use. The FOP sleeper drilling machine is equipped with the following safety systems:

- mechanical safety: removal of tip protection cannot be accidentally, it can be removed only by releasing two buttons;
- electrical safety: an electric switch prevents the ignition and/or turn off the motor if the tip protection is not installed.



Three wheels aluminum folding support.



TECHNICAL DATA	
MOTOR TYPE	4-STROKE
FUEL	PETROL
ENGINE POWER	1,7 hp
STARTING	manual
WEIGHT WITHOUT TROLLEY	15 kg
WEIGHT OF TROLLEY (OPTION)	15 kg

IOL

HYDRAULIC SCREW MACHINE



The IOL machine has been designed for screwing and unscrewing of rail fastenings. The tightening and unscrewing are obtained through hydraulic motor, fed by two hydraulic pumps installed on an internal combustion engine. The maximum torque can be adjusted by regulating the oil pressure through a suitable valve, placed on the distributor. The torque value is indicated on the gauge. Maximum torque is 750 Nm. The motor is a 4-stroke internal combustion engine fueled with petrol or diesel, manual or electric starting. For weight reduction, the oil tank is completely made of aluminum. The control of operations is made by a distributor, manually operated by a lever installed on the handlebar.



TECHNICAL DATA (standard version)		
	FUEL	
	PETROL	DIESEL
ENGINE POWER	6 hp	5,5 hp
STARTING	manual or electric	manual or electric
MAX. SPEED	150 rpm	150 rpm
MAX. TIGHTENING TORQUE	750 Nm	750 Nm
SOCKET	1 "	1 "
OVERALL WEIGHT	77 kg	91 kg
TROLLEY WEIGHT	14 kg	14 kg

IES1

SUPER-LIGHT ELECTRONIC SCREW-SPIKING MACHINE
WITH TIGHTENING CONTROL



IES1

SUPER-LIGHT ELECTRONIC SCREW-SPIKING MACHINE WITH TIGHTENING CONTROL

The IES1 is a silent and lightweight electronic screw spiking machine, patented by Dipsa Technes, with torque control and LCD display. IES1 is equipped with a new torque control system with an accuracy of $\pm 5\%$. The direction of spindle rotation and torque value are adjustable on the touchscreen display;

The machine is supplied with a supporting trolley provided with two nylon wheels with double welt and a balancing arm with a third wheel.

The machine frame is made of steel while the other parts are made of aluminum.

It was designed and built to screw / unscrew the following types screw spikes:

- Screw spike 24S;
- On platescrew spike;
- Screw spike CK1 with SKL spring 3-12;
- Screw spikeNabia 24;
- Screw spike SKL 14 Vossloh.



TECHNICAL DATA	
MAX. SPEED	150 rpm
MAX.TIGHTENING TORQUE	400 Nm
SOCKET	1 "
POWER	220 V / 1700 W
OVERALL WEIGHT	70 kg
TROLLEY WEIGHT	15 kg

IES2

SUPER-LIGHT ELECTRONIC SCREW-SPIKING MACHINE
FOR VOSSLOH COUPLING



IES2

SUPER-LIGHT ELECTRONIC SCREW-SPIKING MACHINE FOR VOSSLOH COUPLING



The IES 2 is a double-spindle machine, patent by Dipsa Technes, designed to simultaneously screwing and unscrewing of the elastic fasteners VOSSLOH SKL14.

It allows the following operations:

- unscrewing two screw spike to make free the two springs;
- move the two springs to fix them on rail foot;
- tighten the two screw spikes.

The direction of spindle rotation and torque value are adjustable on the handlebars by a switch and two potentiometers. Telescopic shafts compensate, during the unscrewing, any height difference between the two screw spikes. The machine is supplied with a supporting trolley provided with two nylon wheels with double welt and a balancing arm with a third wheel.

TECHNICAL DATA	
MAX. SPEED	1000 rpm
MAX TIGHTENING TORQUE	300 Nm
SOCKET	3/4 "
POWER	220 V / 2000 W
OVERALL WEIGHT	85 kg
TROLLEY WEIGHT	15 kg

MAB

PORTABLE PETROL ENGINE SCREWDRIVER



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MAB

The MAB screwdriver is equipped with a 4-stroke engine with manual pull start and automatic rewind. Engine is fueled with unleaded petrol and has a centrifugal clutch transmission. The transmission control has 3 positions: CLOCKWISE => NEUTRAL => COUNTER-CLOCKWISE.

The frame handlebar protects the motor unit and the transmission during operations and transport and reduces vibration on operator's arms and hands. The machine is also designed to be mounted on an aluminum support with three isolated wheels; an actuator maintains the MAB always suspended, making it easy to use.



Aluminium folding support with three isolated wheels.



TECHNICAL DATA	
MAX. TIGHTENING TORQUE	500 Nm
NORMAL TORQUE	300 Nm
SOCKET	1 "
SOCKET RANGE	16 mm ÷ 36 mm
OVERALL WEIGHT	18 kg
TROLLEY WEIGHT (OPTION)	15 kg

SAP4

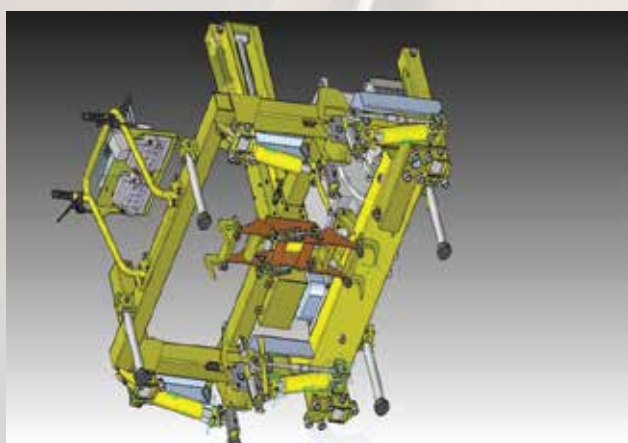
FOURFOLD PANDROL FITTING MACHINE



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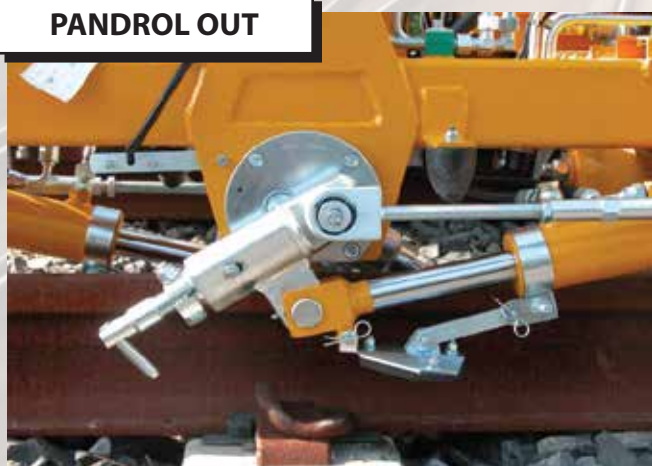
SAP4

FOURFOLD PANDROL FITTING MACHINE

PANDROL IN



PANDROL OUT



SAP 4 is a machine, patented by Dipsa, designed to attach the rails to the sleepers by using PANDROL fasteners. SAP 4 can operate simultaneously on 4 fasteners with just a single operator.

In the case of a sleeper was positioned too low with respect to the rail and therefore does not allow the fastening, the SAP 4 machine is provided with a special gripper which lifts the sleeper and places it normal to the rails, making possible the insertion of the PANDROL fasteners. If the sleeper are not aligned, the gripper allows for a transverse displacement of 50 mm to the right or to the left, allowing the alignment of the rail sleepers. The machine can be equipped, on request, with:

- a gripper for the track gauge control;
- traction motor;
- lifting system for overcoming switch and cross.

The operations are extremely fast and allow a high productivity.

TECHNICAL DATA		
	FUEL	
	PETROL	DIESEL
ENGINE POWER	6 hp	5,5 hp
STARTING	manual or electric	manual or electric
WEIGHT STANDARD VERSION	280 kg	360 kg
DIMENSIONS	1500X1750X900	1500X1750X900
FITTING FOR HOUR	3600	3600

SAP2

TWOFOLD PANDROL FITTING MACHINE



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SAP2



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SAP2

TWOFOLD PANDROL FITTING MACHINE

PANDROL IN



PANDROL OUT



SAP 4 is a machine, patented by Dipsa, designed to attach the rails to the sleepers by using PANDROL fasteners. SAP 2 can operate simultaneously on 2 fasteners with just a single operator. In the case of a sleeper was positioned too low with respect to the rail and therefore does not allow the fastening, SAP 2 can lift the sleeper making possible the insertion of the PANDROL fasteners. The hydraulic unit is removable to make easier and faster the handling of the machine parts. The operations are extremely fast and allow a high productivity.

TECHNICAL DATA (standard version)		
	FUEL	
	PETROL	DIESEL
ENGINE POWER	5,5 hp	5,5 hp
STARTING	manual or electric	manual or electric
OVERALL WEIGHT	98 kg	112 kg
TROLLEY WEIGHT	19 kg	19 kg

SAP2

CEM-T

WHEELCHAIR LIFTING TROLLEY



The lift trolley CEM-T is used on platform sidewalk of railway stations, it has been designed to hallow the access of disabled people to all type of passenger wagons and trains.

CEM-T



AVAILABLE ALSO THE
HAND OPERATED VERSION



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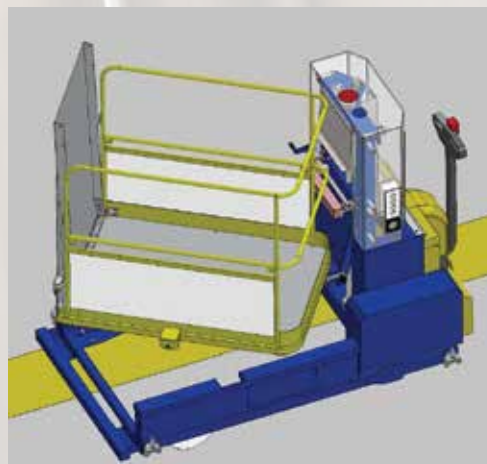
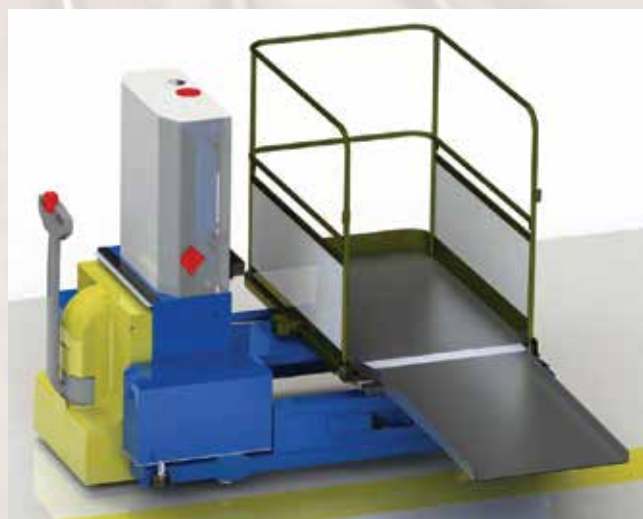
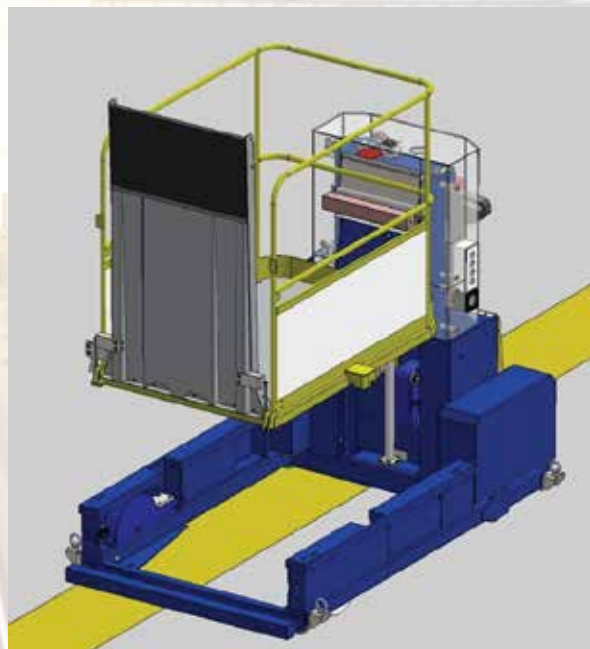
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CEM-T

WHEELCHAIR LIFTING TROLLEY

The trolley is made of a steel frame, it has two rubber wheels and an electric motor wheel for traction; the lifting platform for wheelchair is driven by an electric powered worm gear (not reversible). To ensure the safety of lifting operations, the trolley is equipped with a device (Dipsa patent) that stabilizes the frame on four support when the platform starts to get up, this prevents any dangerous movements for the passenger. The platform can be rotated 180° and locked manually in three different positions to ensure the access to the train on three sides. The trolley is also available in a non-motorized version. In this case the raising of the platform is electric driven, while the movement is by hand.



TECHNICAL DATA	
WIDTH	1.260 mm
LENGHT	2.300 mm
HEIGHT	1.700 mm
PLATFORM LENGHT	1.340 mm
PLATFORM WIDTH	720 mm
MAX. LIFTING LOAD	350 kg
LIFTING STROKE	1.000 mm
LIFTING TIME	30 sec.
OVERALL WEIGHT	790 kg

CEM-T

PSL1M

TROLLEY LIGHT VERSION



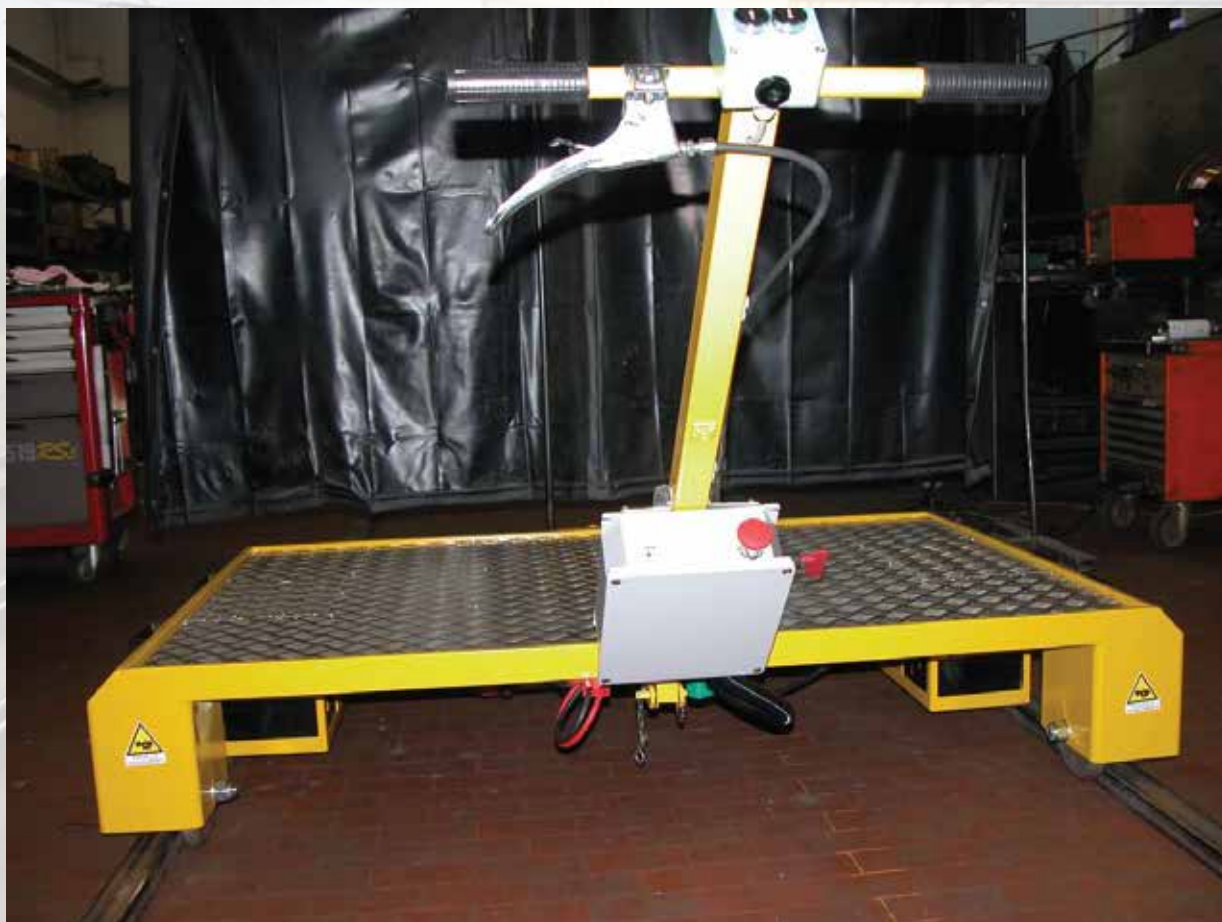
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PSL1M



The trolley PSL1M is used to transport along the railway line small equipments and low loads, helping the operators during the maintenance operations. The trolley has an aluminum cargo platform with up to 500 kg of loading capacity. Traction is given by an electric motor powered by two batteries. The parking brake ensures the holding of the vehicle even on sloping tracks. The handlebars, folding, can reduce the size of the trolley when not used. Two handles on both side allow to quickly and easily move the trolley off the track.

TECHNICAL DATA	
DIMENSION OF LOADING PLATFORM (GAUGE 1435 mm)	1500X1000 mm
HEIGHT ON THE RAILWAY LEVEL	250 mm
OVERALL WEIGHT	120 kg
MAX. LOAD	500 kg
ELECTRIC MOTOR	24 V
BATTERY	2x (12 V - 40 Ah)
MAX. SPEED	3 km/h

TAT1

HYDRAULIC SHEARS



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TAT1



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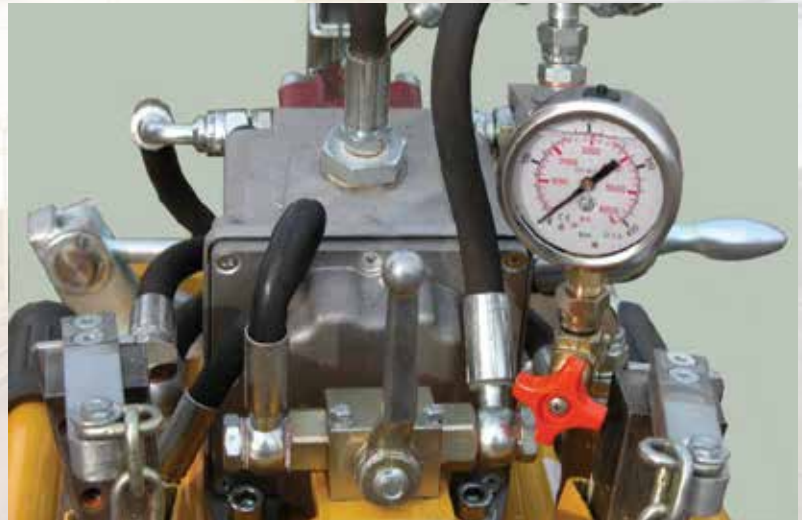
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TAT1

HYDRAULIC SHEARS

TAT 1 is a hydraulic shearing machine designed to remove the residues of aluminothermic welds. The machine is characterized by a hydraulic integrated unit, manually operated by a 1 m long lever and two double-acting cylinders that exert the necessary force for the removal of the machining allowance. It has also a pressure regulating valve that allows you to adjust the pressure of the circuit: the set value is given on the pressure gauge. The equipment allows to operate on different profile rails, simply by changing the cutting tool depending on the rail profile. This tool is made of a special stainless steel, resistant to high temperatures, which ensures a greater duration and precision in the cutting phases. The machine is equipped with handles for a proper and easy transport and positioning. It can be supplied, optionally, with a mini hydraulic power unit with 4-stroke combustion engine, very light and compact, which facilitates the operator's work.



TECHNICAL DATA	
WEIGHT	48 kg
WORKING PRESSURE	280 bar
SHEAR FORCE	16.000 daN

TAT1

SPARE PARTS

DIGGING CHAIN FOR CLEANER MACHINES

PLASSER&THEURER

RM74

RM76

RM80





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SPARE PARTS

DIGGING CHAINS FOR CLEANER MACHINES

MATISA

C90

C411



ITI-DANIELI

C14



SPARE PARTS

SPARE PARTS

DIGGING CHAINS FOR CLEANER MACHINES



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MATISA

C330



SPARE PARTS



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SPARE PARTS

DIGGING CHAINS FOR CLEANER MACHINES

MATISA

**C330
C45**



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DIGGING CHAINS FOR CLEANER MACHINES

PLASSER&THEURER

RM750



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MATISA



PLASSER&THEURER



RICAMBI

NOTE



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The Dipsa Technes S.R.L reserves the right to make changes to the data and specifications without notice

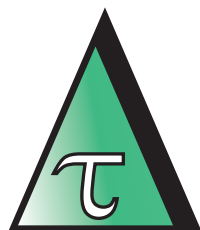


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NOTE



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