



# TEHMA

## High Pressure Tools

# MULTI-SHEARS

## 4 TOOLS IN 1

Extremely quick and quiet, the multi-shears allow you to work in any environment, minimising noise, dust and vibrations.

It is based on a modular system consisting of one main body and four sets of specifically designed interchangeable blades that allows the operator to intervene quickly and accurately in any environment. In just a few steps it can be easily configured into 4 different tools: CC300, MS250, GS170 and CS350.

Extremely versatile and functional; it is an indispensable partner for demolitions inside inhabited buildings or densely populated areas and the right tool to complete the TEHMA SP400 hydraulic concrete and rock splitter.

MS250 Metal Shears / GS170  
Guide Blade: Wear-resistant interchangeable steel insert

CS350 Combi Shear Spreader:  
Double-toothed blade with chain attachment point

Main Body: cylinder and components made in aeronautical grade alloy

Fast jaws approach-reopening mechanism

Ergonomic handle for a better grip in any condition

CC300 Concrete Crusher: Extremely hard interchangeable steel tip

**NO DANGEROUS VIBRATIONS**

**NOISE AND DUST FREE**

**EXTREMELY POWERFUL**

**LIGHT AND EASY TO USE**



# 4

## DIFFERENT CONFIGURATIONS



### CC300 CONCRETE CRUSHER

It demolishes with incredible ease and precision reinforced walls, bricks walls, structures in composite stones and masonry, ceilings, pillars, stairways and every concrete section up to 250mm (R =325 kg/cm<sup>2</sup>).

#### APPLICATIONS

- For demolitions where it is necessary to preserve the integrity of the structure/building avoiding dangerous vibrations (historical buildings, luxury apartments, structures that could fall down).
- Wherever it is important to intervene quickly and cleanly without generating dust (hospitals, production departments of companies).
- For any demolition respecting noise levels during the whole day (condos, offices, schools).
- Where due to space restrictions or transportability it is impossible to use bigger and heavier machinery (upper floors, aerial platforms or in confined spaces such as basements).



### MS250 METAL SHEARS / GS170 METAL SHEARS WITH GUIDE BLADE

Quickly cuts metal structures and profiles without splinters or dangerous sparks.

#### APPLICATIONS

- Cutting of metal profiles and reinforcements (reinforced mesh, steel rebars).
- Cutting of pipes and metal cables (by means of GS170 jaws equipped with a blade guide to avoid excessive twisting and possible misalignment of the blades).



### CS350 COMBI SHEAR SPREADER

Easily opens gaps through reinforcements and previously demolished structures.

#### APPLICATIONS

- Quick separation of blocks of reinforced concrete structures previously demolished by means of CC300 or SP400.
- Removal of door/windows frames from walls.
- Cutting of reinforcements and other metal profiles.



	Cutting/Separation force (kN)	Demolition force (kN)	Mouth opening (mm)	Mouth depth (mm)	Weight (kg)	Pressure (bar)	Dimension L x W x H (mm)
CC300	-	101	305	150	22.5	620	850 x 350 x 190
MS250	450	-	200	150	20.5	620	810 x 240 x 190
GS170	450	-	170	135	20.5	620	810 x 240 x 190
CS350	360/95	-	360	180	19.5	620	850 x 240 x 190

# SP400

## CONCRETE AND ROCK SPLITTER

By nature, rocks and concrete have a low tensile strength, it follows that, by applying the hydraulic force to a wedge, it is possible to demolish large portions of material in a few seconds. The SP400 TEHMA Handheld hydraulic concrete rock splitter for demolition allows targeted, silent and cost-effective interventions!

The SP400 TEHMA portable Handheld hydraulic concrete rock splitter demolishes quickly and accurately both rocks and large-thickness concrete structures (pillars, plinths, retaining walls, foundations and slabs).

The extreme power allows you to demolish without generating dangerous percussions and vibrations that are usually the cause of structural damages and discomfort to the surrounding environment.



Ergonomic handle for a better grip in any condition

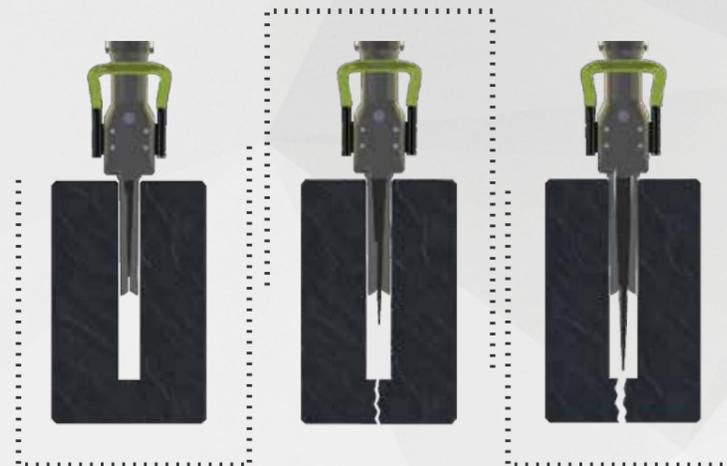
Inner carbide layer for better resistance to high pressure and reduced friction

High quality steel wedges to ensure reliability and durability

Maximum precision and controllability of the tool in any position due to the bi-directional cam

Splitting direction controllable by the handle

Cylinder and components in aeronautical grade alloy



### HOW IT WORKS

1. On the object to be demolished, a hole is drilled to a specified diameter and depth using a rock drill or a core drill with diamond tool.
2. The splitter cylinder is inserted into the hole with the central wedge in a retracted position.
3. The operator directs the rear handle depending on the desired splitting direction and then activates the tool with the control cam.
4. The hydraulic pressure forces the wedge between the two counter wedges, pressing them against the walls of the drilled hole until the force discharged exceeds the strength of the material and generates a crack.
5. The process is repeated until the whole structure is broken into sections, varying in size depending on the operator's needs and equipment, ready to be removed and disposed of.

### USING SIMULTANEOUSLY

If the object to be demolished is particularly large and hard or the highest precision is required to keep intact a part of the structure two or more splitting cylinders SP400 can be used simultaneously. PP700 and PP600 TEHMA power packs can operate up to 3 tools simultaneously by means of the MM30 module.

### APPLICATIONS

- Demolition of reinforced concrete structures with a high thickness (such as foundations, floor slabs, stairways, plinths, pillars, bridge decks, bridge abutments, retaining walls).
- Demolition of large rocks resulting from excavations and trenches, mines enlargements, tunnelling or resulting from previous processes.
- Wherever it is important to intervene quickly and cleanly without generating dust (hospitals, data centres, production departments of companies).
- For any demolition respecting noise level during the whole day (condos, offices, schools).
- Demolitions of structures particularly vulnerable to vibrations and percussions (historical buildings, luxury apartments, structures that could fall down).
- Wherever for reasons of space or transportability it is impossible to use bigger and heavier machinery (upper floors, aerial platforms or in confined spaces such as basements).
- Production of natural stone blocks without resorting to blasting, ensuring more safety and less material waste.



**SPLITS IN SECONDS**

**SHOCK AND VIBRATION FREE**

**SPLITTING FORCE OVER 375t**

**CONTROLLED SPLITTING DIRECTION**

	Splitting force theoretical (t)	Splitting distance (mm)	Required drill hole diameter (mm)	Minimal drill hole depth (mm)	Weight (kg)	Pressure (bar)	Dimension L x W x H (mm)
<b>SP400</b>	375	17	45-50	440	23.5	620	1020 x 195 x 195

# PP700

## HIGH PRESSURE HYDRAULIC POWER PACKS

Equipped with a very efficient cooling system joined to a high performance two-stage pump, that constitutes a unique compromise to efficiency, robustness and performance which can maximize the performance of every TEHMA tool connected.

Fitted with the TEHMA MM30 multiplier module, it can run up to 3 SP400 Splitting cylinders simultaneously or 2 cylinders and 1 Multi Shear equipped with CC300 or CS350 jaws at a time.



### 2 ENGINES AVAILABLE

The unit is available with two different motors, a versatile 3Hp single-phase electric motor, ideal for indoor demolition as it can be plugged into a traditional 230V/110V household power, or a 5Hp gasoline engine for use outdoors.



### 2-STAGE PUMP

The Innovative two-stage pump is a further element of distinction of the unit and ensures performance well above the category. This allows to speed up to the maximum the tools connected and significantly improve the work rate and consequently the productivity.

### COOLING SYSTEM 2.0

The high efficiency cooling system 2.0 drastically contrasts the oil overheating and cuts it down by about 60%, compared to ordinary power units on the market.

Ensuring maximum performance of the power pack even in the hottest climates and a better use of the tools connected during demanding and prolonged applications.

	Flow at 1' stage (L)	Flow at 2' stage (L)	Power (kW)	Motor	Weight (kg)	Pressure (bar)	Dimension L x W x H (mm)
PP700 E	9	1.5	2.2	Electric single-phase 230V <small>(Available at 110V or Three-phase)</small>	57	Adjustable up to 700	710 x 435 x 445
PP700 S			3.6	Gasoline Honda GX160	54.5	Adjustable up to 700	710 x 435 x 445
PP600 E	5.4	1.2	2.2	Electric single-phase 230V <small>(Available at 110V or Three-phase)</small>	42.5	Adjustable up to 700	520 x 360 x 500

# PP600

## HIGH PRESSURE HYDRAULIC POWER PACKS

TEHMA PP600 is the perfect choice between reliability and simplicity and is the best tool for industrial applications. It can be combined with the multifunctional trolley TR200/SK200. The PP600 is available in electric (E) or petrol (S).

Its two-stage pump doubles speed and minimises the downtime when approaching and reopening the blades, in this way cutting speed/ frequency and productivity are significantly increased.

On demand, it can be equipped with a dual fan cooling system able to always keep the maximum temperature under control.



### TR200 / SK200 Trolley and Suspension kit

Agile and robust, the TR200 Trolley is not afraid of stairs and debris. Thanks to its large wheels and a low weight it is possible to carry the equipment easily and in complete autonomy.

Equipped with the SK200 Suspension kit, the trolley can be quickly transformed into a highly functional mobile workstation, allowing you to work with minimal effort during long periods.

# ACCESSORIES AND SPARE PARTS



TR200



SK200

<b>TR200</b>	Trolley
<b>SK200</b>	Suspension kit with balancer



MM30

<b>HPH5</b>	High pressure hose 5 m - 3/8"
<b>HPH10</b>	High pressure hose 10 m - 3/8"
<b>MM30</b>	Three channels multiplier module



SJ - CC300



SJ - MS250



SJ - CS350



SJ - GS170

<b>SJ - CC300</b>	Spare jaws for CC300
<b>SJ - MS250</b>	Spare jaws for MS250
<b>SJ - CS350</b>	Spare jaws for CS350
<b>SJ - GS170</b>	Spare jaws for GS170



CT - CC300



MI - MS250



GB - GS170

<b>CT - CC300</b>	Spare tips for CC300
<b>MI-MS250/GS170</b>	Spare metal insert for MS250/GS170
<b>GB - GS170</b>	Guide blade for GS170

## TRAXX CONSTRUCTION PRODUCTS

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