Hydraulic Rock and Mineral Crushing Press

LT-M0607 | Preliminary size reduction of large samples

Enclosed chamber • Interchangeable heads • Hydraulic force



Representative press view • Machine label in the photograph: 60 tons.

30 tons

MAXIMUM COMPRESSIVE FORCE

400 mm

MAXIMUM PISTON STROKE

Photographs and Visible Components

Loading area, column frame and front control panel

The photographs show the press loading arrangement, column frame and front control panel. The LT-M0607 technical specifications appear in the table on the final page.

UPPER PISTON

The photograph shows the upper piston and vertical loading axis.

COLUMN FRAME

The columns in the photograph show the supporting structure around the loading area.



CONTROL PANEL

The front panel shows a pressure gauge and manual control levers.

EMERGENCY STOP

The photograph shows the emergency stop button on the front panel.



Loading and sample area • Close-up



Pressure gauge and controls • Close-up

Representative press view • Machine label in the photograph: 60 tons.

LT-M0607

Enclosed Chamber and Hydraulic Crushing

LT-M0607 • Preparation of large rock, mineral and ore samples

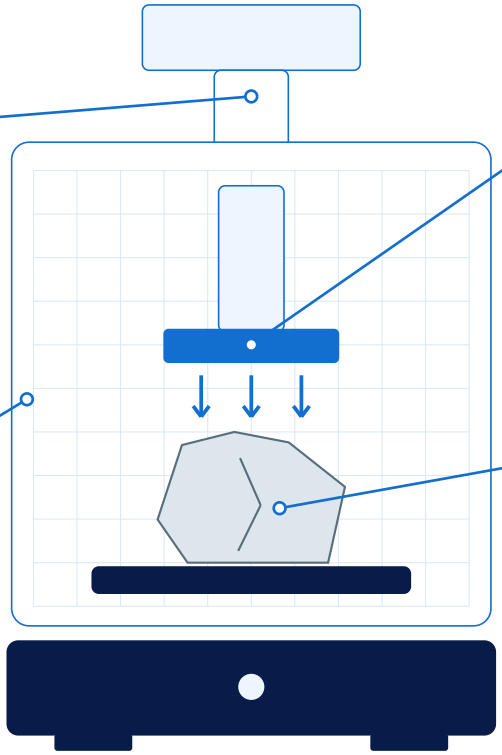
The Liya Hydraulic Rock and Mineral Crushing Press reduces large rock and ore pieces to a size suitable for laboratory crushers. Hydraulic force is applied to the sample through compression, wedge splitting or point loading.

HYDRAULIC LOADING

Maximum compressive force of 30 tons and a 400 mm piston stroke.

CRUSHING HEAD

Select a flat, wedge or cone-pointed head to suit the sample.



SAFETY ENCLOSURE

A Plexiglas cover reinforced with woven steel wire helps contain fragments.

WORKING AREA

Internal dimensions: 50 × 50 × 60 cm. Fragments are retained within the chamber.

OPERATING PRINCIPLE • NOT TO SCALE

Preliminary Reduction

Prepares samples <30 cm for subsequent crushing.

Controlled Process

Hydraulic force is applied through the selected head.

Sample Collection

The enclosed working area supports fragment containment and collection.

Head Selection

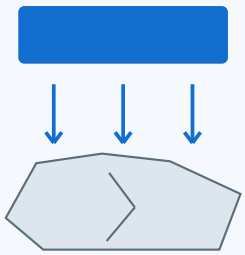
Three loading methods accommodate different sample structures.

LT-M0607

Crushing Heads and Sample Workflow

Flat compression, wedge splitting and cone-point loading options

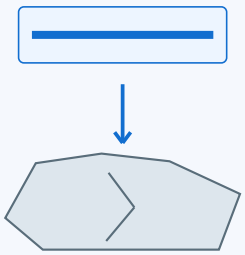
01



Flat Compression

Applies force over a broad surface. Supports general compression and crushing.

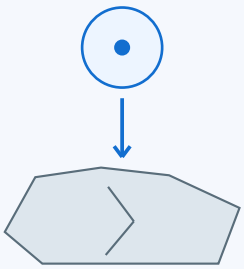
02



Wedge Splitting

Concentrates force along a line. Supports splitting the sample along that line.

03



Cone-Point Loading

Applies force to a small contact point. Produces concentrated local stress in the sample.

The diagrams show the contact patterns. Head selection depends on the sample structure and fracture behaviour.

FEED SIZE

<30 cm

REDUCED SIZE

<5 cm

The final size depends on sample hardness and the selected crushing head.

LABORATORY SAMPLE PREPARATION WORKFLOW

01

Select Head

Choose a head to suit the sample structure.

02

Position Sample

Place the sample in the enclosed working area.

03

Reduce and Collect

Reduce the material hydraulically and collect it.

04

Transfer to Crusher

Transfer suitably sized pieces to the next crushing stage.

Technical Data and Configuration

LT-M0607 • Force, stroke, dimensions and electrical supply

Technical Specification	Value
Product Code	LT-M0607
Product Name	Hydraulic Rock and Mineral Crushing Press
Maximum Compressive Force	30 tons
Feed Size	<30 cm
Reduced Size	<5 cm
Maximum Piston Stroke	400 mm
Crushing Head Options	Flat / wedge / cone-pointed
Internal Working Area	50 × 50 × 60 cm
External Dimensions	60 × 60 × 160 cm
Approximate Weight	450 kg
Motor Power and Speed	4 HP, 1400 rpm
Electrical Supply	380 V, 3 phases
Safety Cover	Plexiglas reinforced with woven steel wire

Standard References

ISO 4700

ASTM E382

IS 8625

Installation and Application Selection

Sample and Crushing Head

Define initial size, sample structure and required size reduction together.

Layout and Electrical Supply

Plan the three-phase supply, floor load capacity and access for sample loading.