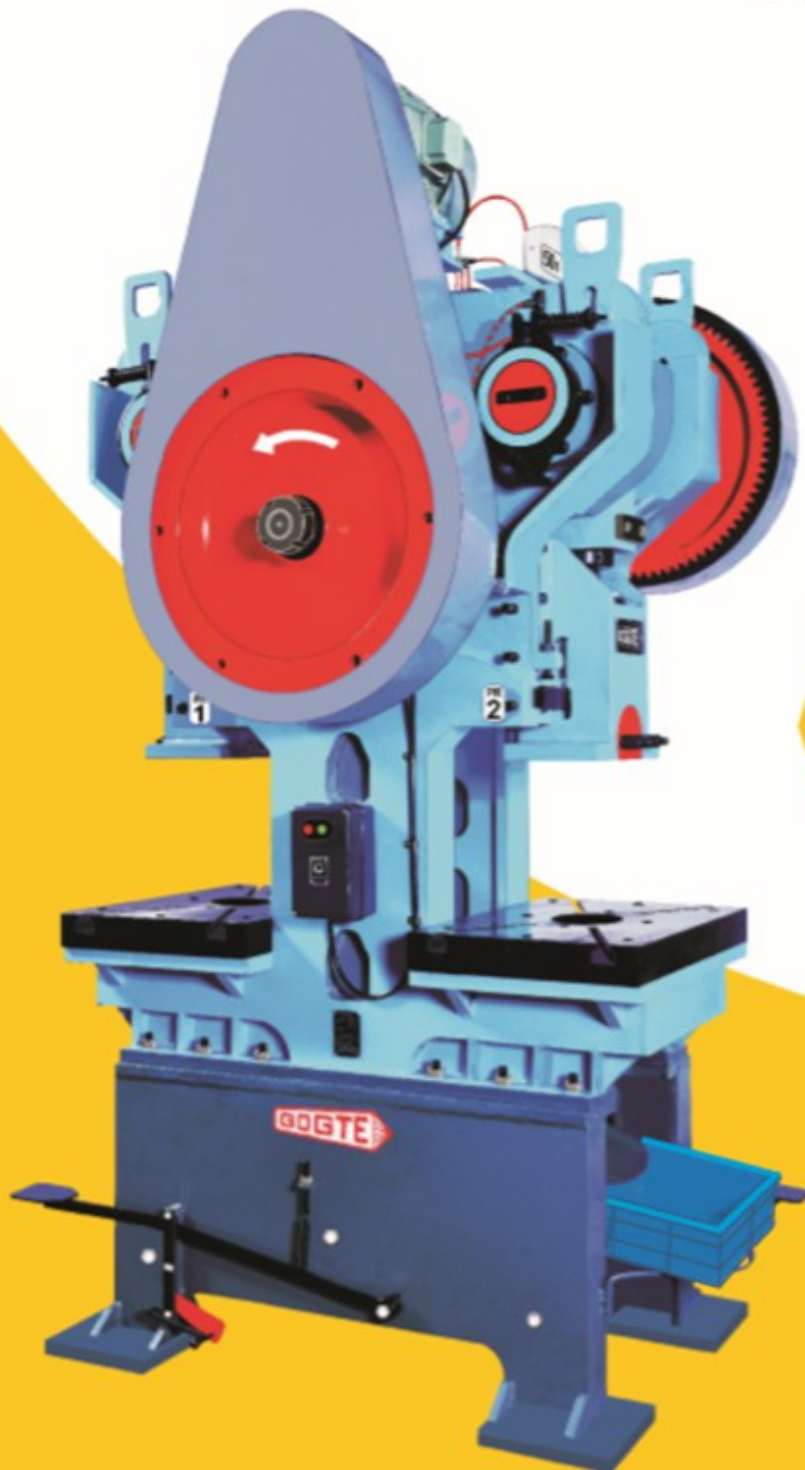




# Duplex Power Press



**First Patent in the World.....**

**Compact Duplex Power Press  
in place of two separate  
Conventional Presses**

**A boon for small, industries with  
congested areas  
needing expansion**

**Designed & Developed from  
in house needs & Experience**

Fig. 1

### 1.0 About us :

The developer has high technical qualification along with experience from leading engineering industries. He established **M/S JUPITER INDUSTRIAL WORKS** along with number of his associates to manufacture or Process, his most popular branded SS sheet metal components since **1963** with wide esteemed clientele in India and abroad during last 50 years. These Industries have quality certifications and are accredited regularly from O.E consumers. Products are manufactured in promoter's **10 hecters** Industrial lands & buildings, located around Mumbai – Pune (India).

### Product History :

To increase reliable product sheetmetal quantities and to save work spaces with many other benefits, **Duplex Power Presses** are developed with brand "GOGTE" originally for **promoter's in-house private use only**. These, Novel presses are successfully and continuously working in developers group of Industries during last 18 years faultlessly for special, critical or automatic operations and have **proved reliability and utility**.

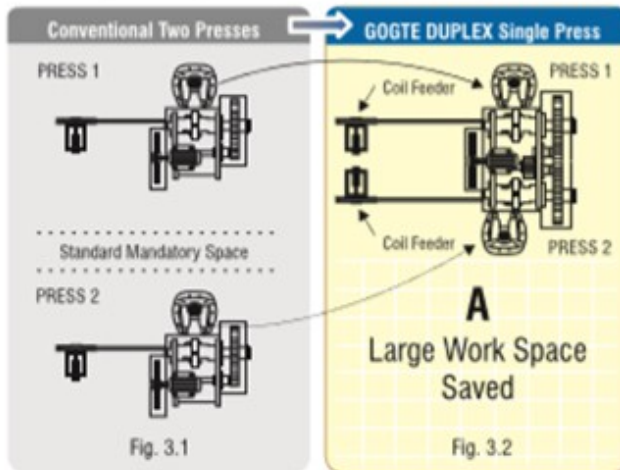
**The developer's added noble objective to offer such novel Presses to actual users for their numerous techno-commercial benefits are described here in below :**

### 2.0 Design & Function :

The innovative novel design of "GOGTE" Duplex Power Press Comprises advantages of **Two** power presses constructed in **One** body frame on its opposite sides. It has common **single** motor drive in lieu of **Two** motors employed in conventional **Two** presses. It has common flywheel, gear box, **single** body frame, switch box and automatic self-Hydrodynamic lubrication system. This saves investment for machines, work space, Cost or Rent as capital gains along with continuous saving in Power bills while in use. Fig.5. shows Two operators separately working on opposite sides **without interdependence**. This means **any one press can work or stop without effect on the work status of the other**.

### 3.0 Work space saving :

"GOGTE" Duplex design saves nearly 40% of work space as compared to using **Two** Conventional machines of the Same



### Value Saved in case of.....

#### Ownership Premises

Gain in Ownership area = Area saved x **R**uling Rate of Construction

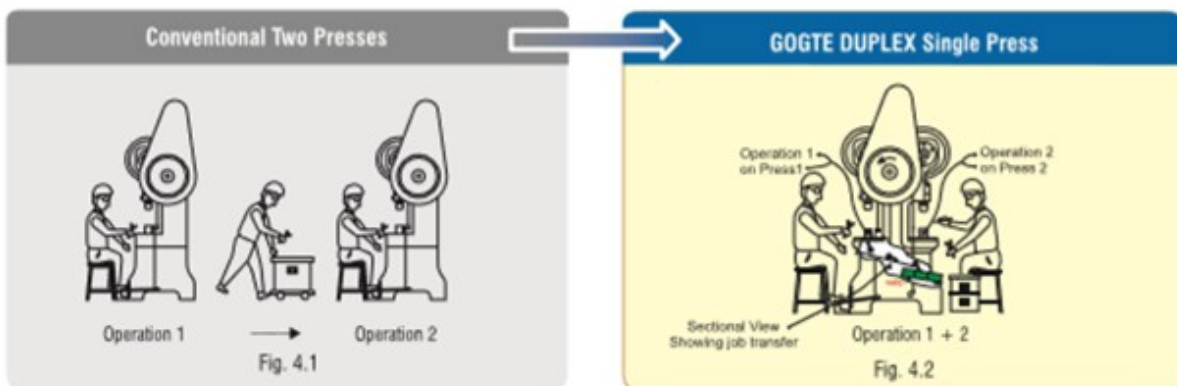
$$GO = A \times RR \dots\dots\dots 3.0.1$$

#### Lease held Premises

Gain in Lease held area = Area saved x **L**ease **R**ent of Applicable

$$GL = A \times LR \dots\dots\dots 3.0.2$$

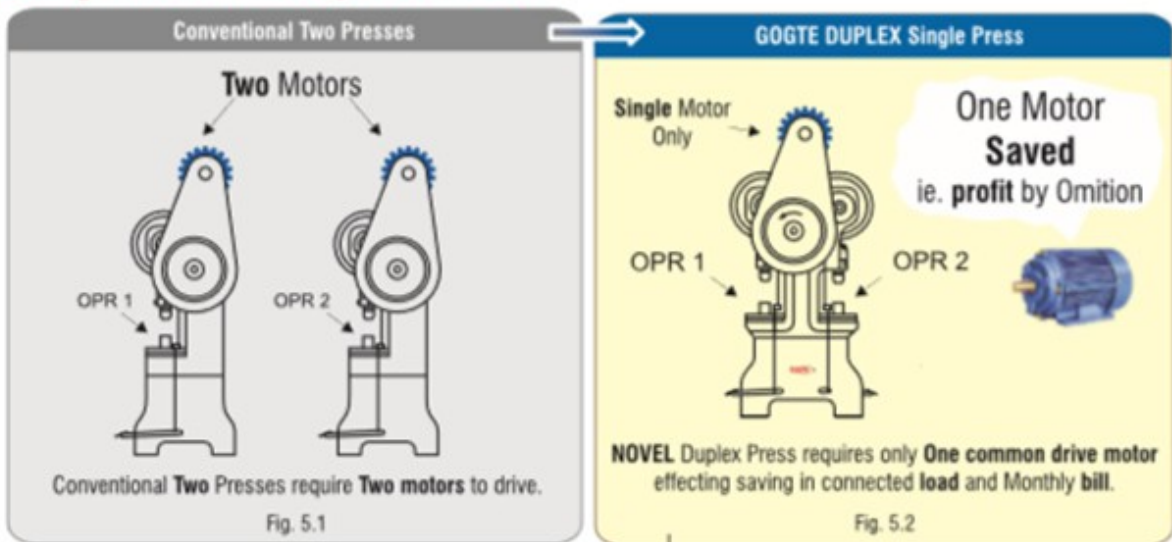
### 4.0 Saving in Movement for two consecutive operations :



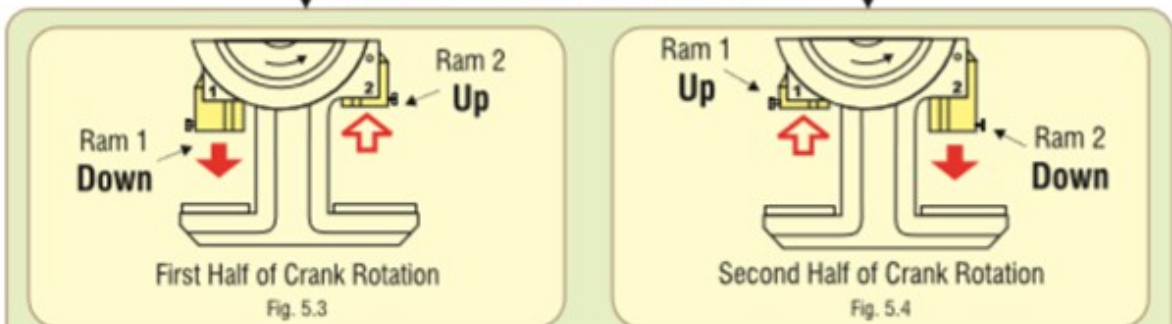
**Extra Labour & Time** Required for material Movement from Press 1 to Press 2

**NO Extra Labour** Required due to convey on slop from Press1 to 2

## 5.0 Saving in Motive Power by Economical use :



### How Such Power Saving is Achieved ?

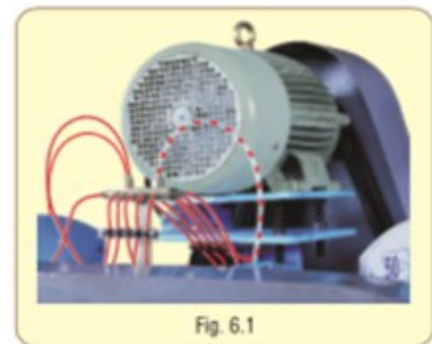


By special gear-train arrangement, Ram movement on two sides of NOVEL Press are always opposed to each other. Ref (Fig. 5.3 & 5.4) If Ram of side 1 moves **DOWN** then the Ram on side 2 moves **UP** and vice versa.

Idle stroke of one side becomes Power stroke of the opposite side. Motor Power is effectively & fully engaged causing to reduce connected **load** and monthly power **bill** of **Novel** Press compared to conventional two presses.

## 6.0 In-built Total Auto Lubrication :

Gogte press provides additional **unique** features for automatic in-built total Hydro Dynamic **Lubrication System** for positive lubrications & cooling, of all bearings and thus avoids possible miss in daily maintenance. This is to ensure advantage of **longer life**.



## 7.0 Tool Setting Convenience and flexibility :

Many times, high speed production by automatic or complex tooling does not match with their consecutive secondary lower speed productions.

"GOGTE" Duplex press has facility to conveniently load such **complex higher production tools** permanently set on one side of the press while the other side can be used freely for **ever changing tool settings**.

## 8.0 Multifold Productions Achieved :

"GOGTE" Duplex Press has its own advantage of higher production rate achieved economically by additional built in press on opposite side without or with automation if necessary with single motor drive.

## 9.0 Graphical Display shows Cost Saving and Work Economy on use of "Gogate" Duplex Press:

(Figs are illustrative and arbitrary for explanation only)

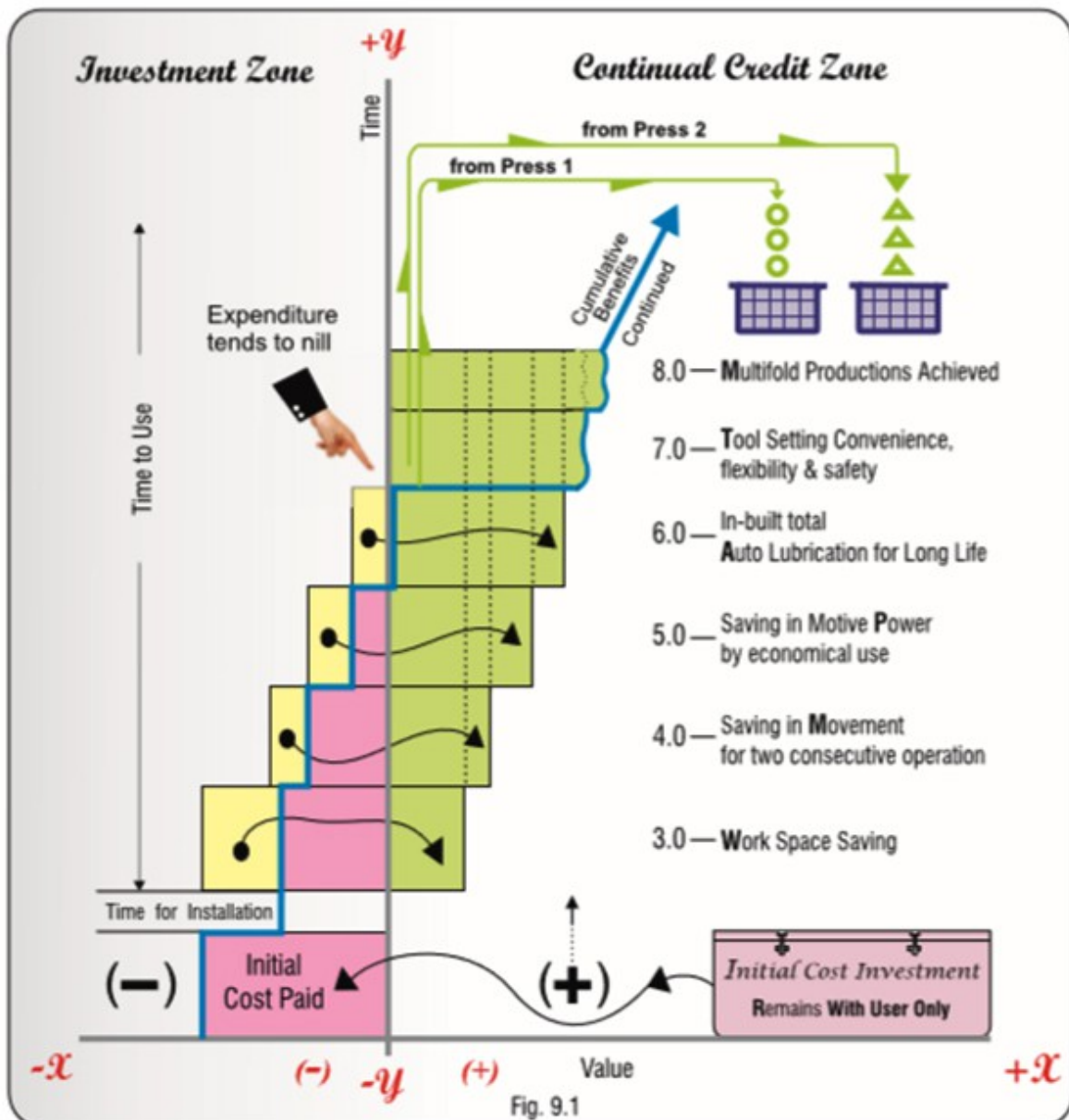
■ "Pink blocks indicate, Initial Capital Investment."

■ "Yellow blocks indicate, Partial transfers or additional benefits towards credit zone."

■ "Green blocks indicate, Above additional benefits transferred from debit to credit or gain zone."

— Dark Blue line indicates resultant net expense-gain levels along X-axis. It may please be noted that,

- At (6) blue line crosses over X-axis compensating initial investment cost to nil and thus, **Original capital asset** remains saved.
- There after blue line travels in Gain Zone over the blocks (7) & (8) indicating cumulative advantages.
- Then blue line adopts continual path of user's progress.



## Customer Specification on Enquiry

### 10.0 General Specifications for Reference :

		3 T+3 T	5 T+5 T	10 T+10 T	20 T+20 T	30 T+30 T	50 T+50 T	+
General Body	HP of Motor - (1.5 Ph. 440V/1440 RPM)	0.75	1	1.5	3	5	7.5	
	Height of Bed from Floor	585	565	670	670	720	795	
	Floor Space Front to Back	450	468	675	920	1000	1160	
	Floor Space Left to Right	280	350	422	700	702	820	
	Height of Machine	1600	1700	1800	2100	2250	2600	
	Weight of machine (Kg)	250	460	610	1400	1850	3300	
	Flywheel Dia	343	380	420	500	560	675	
	Bed Area : L X W	202 X 156	290 X 170	300 X 230	400 X 310	510 X 355	640 X 450	
	Hole Dia in Bed	65	75	85	100	120	140	
	Hole Dia in Ram	19	25	25	32	38	45	
for Tooling	Distance bet. Bed & Ram Guide	195	250	300	380	405	450	
	Stroke Adjustment	3 - 23	3 - 26	5 - 48	6 - 54	8 - 70	5 - 80	
	Slide Adjustment by screw	15	30	25	50	50	55	
	Strokes per Min mach. production per Min	80	75	70	50	45	40	
for Setting		160	150	140	100	90	80	
	Bolster thickness	35	40	48	55	65	65	

Note - Deviations in dimensions can be offered on request

Fig. 10.1



## Duplex Power Press

### 11.0 Inherent Reliability Features:

<b>Main Body Material</b>	Mild steel
<b>Material for Shaft</b>	High tensile Steel
<b>Heat Treatment</b>	Critical components are heat treated to optimum hardness for wear resistance & higher strength
<b>Grinding Finish</b>	Journals and wearing parts are hardened & ground where ever necessary.
<b>Auto Lubrication</b>	Automatic - lubrication as described vide para 6.0

12.0

### Added features offered on enquires

Knockout or Ejector ,  
Stroke or Job counters ,  
Safety Devices for Operators ,

Idle Press Lock ,

Automatic Feed Lock ,

Roller Feeders, Coil Carriers, Scrap Rewinders .

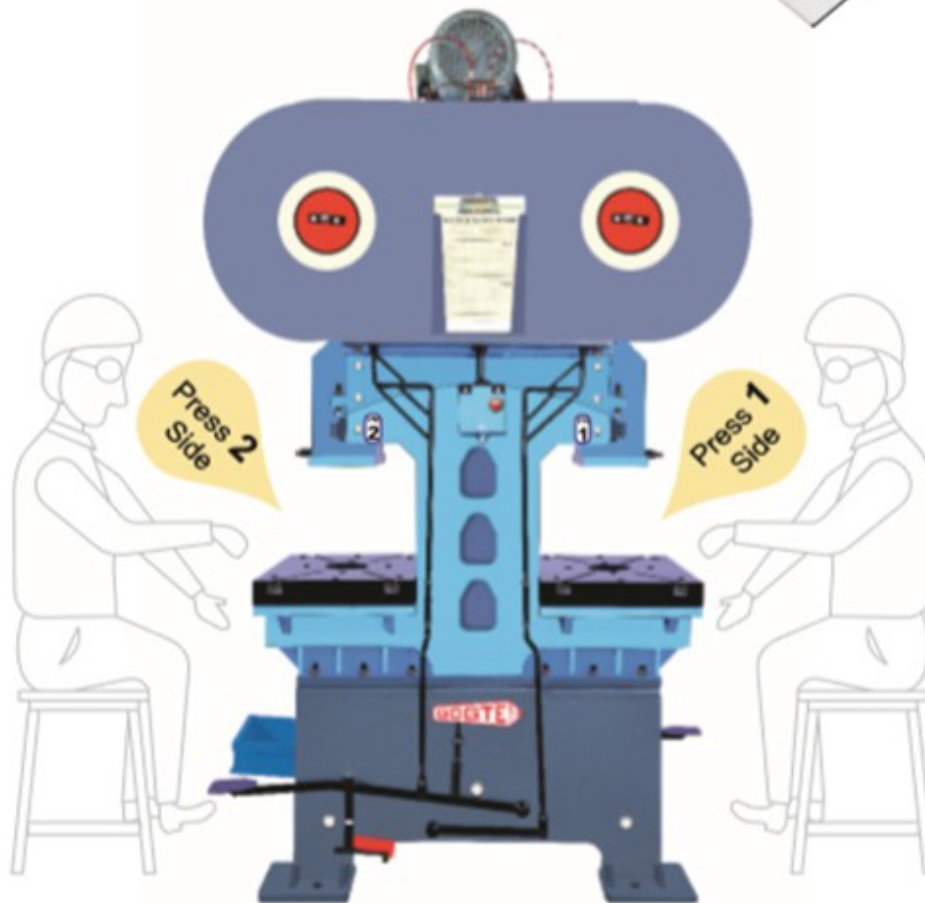


Fig. 13

For more information & offers please contact manufacturer :

#### Works :

Gat No. 36 B,  
"Paud",  
Dist. Pune - 412108.

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