

400 tool and die loading trucks with original rigid-chain technology



SERAPID RIGID CHAIN TECHNOLOGY



Get it all with a GPO-TRUCK from SERAPID

Highly accurate, repeatable positioning

Reliable and efficient operation

Safe and easy handling

SERAPID Tool and Die Loading Trucks are heavy-load lifting carts with the added capabilities of an original rigid-chain system for horizontal transfer and positioning. They allow the handling of heavy tools, such as press dies, from storage to machine and back – all with one, easy to handle piece of equipment.

The tool is pulled out of the storage shelf and onto the truck's load table, and it is pushed from there into its machine slot and operating position. In both ways, the move is made by the SERAPID chains. All movements are controlled from the operator station.

The SERAPID GPO series of die exchanging trucks improves process efficiency, safety and reliability in pressrooms and, generally, any working environment that requires the handling of cumbersome parts with accuracy

and care. Here, a GPO truck will always save costs and time. And it will help to increase productivity and safety.

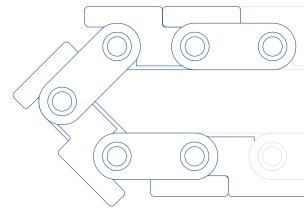
A sensor-controlled safety subsystem monitors the GPO's operating status and checks it against predefined limits and stop positions. This ensures that the transfer and the positioning of tools are only performed if the safety conditions have been met.



0.5 UP TO 12 TONS

the SERAPID chain

The rigid pushing chain is an original SERAPID product and has proven the superior solution in a wide variety of linear motion tasks. It is basically a chain with special links. This link features a hook-like extension, which we call the shoulder. The shoulder serves as a joint between neighbouring links. When force is applied, the shoulders interlock and make the chain as rigid as a jack. At their cross-axes, the links are connected flexibly, just as in an ordinary chain. Thus, the rigid chain will still bend and can be coiled up and stored very efficiently.



types of GPO Truck

To cater for the broadest possible range of press-room applications, SERAPID offers various types of tool and die loading trucks. The smallest GPO truck lets you handle up to 500 kilos, the biggest up to twelve tons.

Our GPO trucks are standardly based on mast-type lifts, only the largest model, called GPO.12T, employs a scissors mechanism, which supports the load right at the centre of gravity. Thus the load may not only be very heavy, but very large as well.

To allow for most efficient die exchange, we have developed a truck with dual load tables. This type of truck, called **GPOD.2000**, allows you to bring the new tool on one of the tables while the other table is free to load the old tool right away. No more double rides or intermediate unloading. – Of course, the press table has to be high enough, and the tool's shut height has to be low enough.

Customized trucks are available on demand. SERAPID's engineering department is ready to solve any die-handling challenge for you.

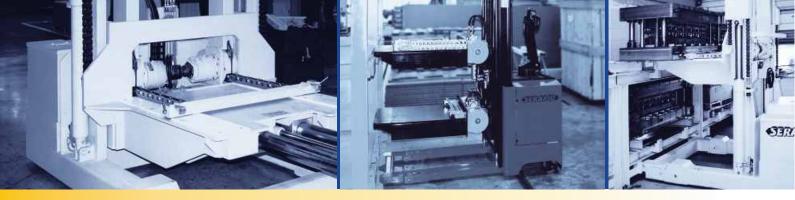
Please note that the technical drawings presented in this brochure can also be downloaded from our website at **www.serapid.com**, or obtained on CD ROM by calling or e-mailing any SERAPID office worldwide.

complete solutions

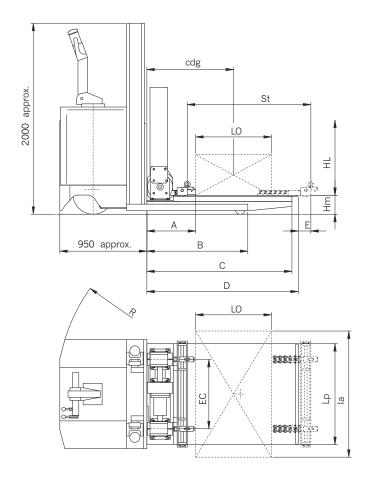
Besides trucks, we also offer a modular system of diestorage racks as well as staging tables. Dimensions can be made according to your specifications.

A comprehensive range of **optional accessories** is available, to adapt our trucks to the individual application. See the last page in this brochure for details.





capacity up to 2.7 tons

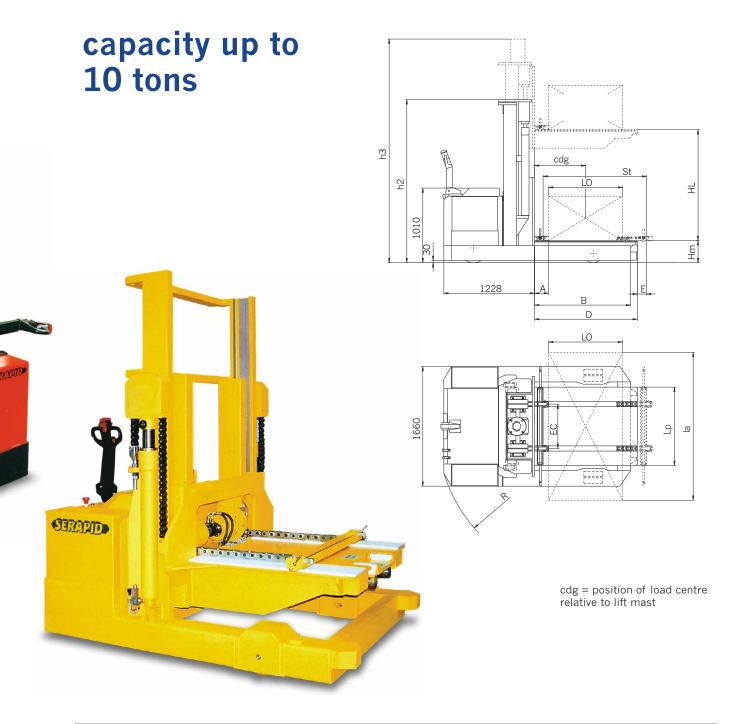




cdg = position of load centre relative to lift mast

Specifications												
GPOType	max. Load (kg)	Cdg max.	LO max x la	A/B	C/D	St/E	Lp/EC	Hm/HL/R				
GP0.500	500	780	740 x 1000	410/930	1150/1200	960/95	890/550±50	150/2800/1500				
GP0.1000.1	1000	710	600 x 1000	410/900	1150/1200	960/95	890/550±50	150/2800/1500				
GP0.1000.2	1000	910	1000 x 1500	410/1100	1410/1460	1240/115	890/550±50	230/2800/1700				
GPO.1500	1500	910	1000 x 1500	410/1100	1410/1460	1240/115	980/550±50	230/2800/1700				
GP0.2000	2000	810	800 x 1500	410/1100	1410/1460	1240/115	980/550±	50260/2630/1800				
GP0.2700	2700	910	1000 x 1500	410/1100	1410/1460	1240/115	980/550±50	330/1780/1800				
GPOD.2000	2 x 1000	810	800 x 1500 *	*	*	*	*	*				

GPO-TRUCK



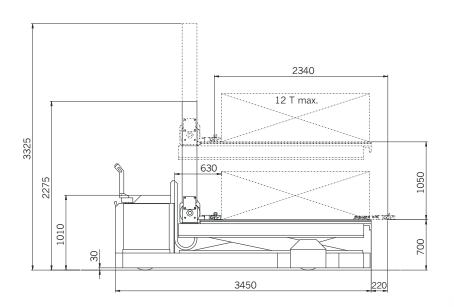
Specifications													
GPO Type	max. Load (kg)	Cdg max.	LO max x la	A/B/D	St/E	Lp/EC	Hm/HL/R	h2/h3					
GPO.6T	6000	750	1100 x 2000	165/1300/1400	1680/480	1060/600	300/2000/2120	2206/3526					
GPO.8T	8000	910	1500 x 2800	165/1675/1765	2100/425	1060/600	350/2000/2320	2106/3825					
GPO.10T	10000	910	1500 x 2800	165/1675/1765	2100/425	1060/600	400/2000/2320	2206/3526					

All dimensions in mm.



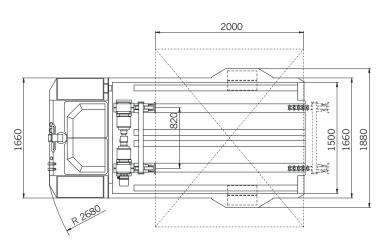


capacity up to 12 tons



GPO.12T

Our biggest GPO truck can push and pull loads up to twelve tons. Its load table is supported by a scissors mechanism that accomplishes the vertical movements.







COPHONS

Several options are available for our GPO trucks, to enhance use and operation and adapt to specific application situations.

swinging-out platform for driver

The drivers platform is attached to the rear of the truck.



custom sizes

With the exception of the GPO.12T, all models are available with custom-sized load tables.



automatic hooks

A hydraulically driven hooking device allows coupling and uncoupling of the tool without manual action. This option is particularly useful when the target position of the tool inside the press is inaccessible to operators.



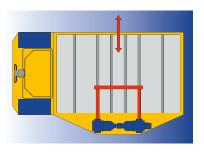
interfacing loops

The loops are attached to the tool, to engage with the GPO Truck's hooks. They are available in pairs.



lateral pushing and pulling

The GPO.12T is available with the chain system mounted in rectangular orientation to the truck carriage. The tool is thus moved sideways from or onto the truck.



coil loader

To pick up metal-band coils, a hydraulically controlled extender can be attached to the truck's load table.

(GPO.6T / 8T / 10T only.)



truck positioning and platform docking

To accurately position the truck, a pair of V-block locators are mounted at the base of the press. To securely dock the platform, a fixation bar is mounted on the press at the transfer height level. Die transfer is only permitted when the platform is engaged into the bar.

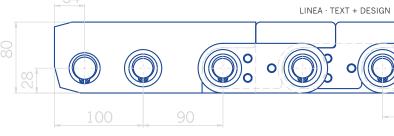


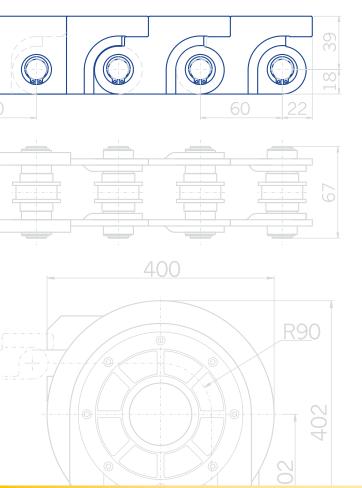
racks and tables

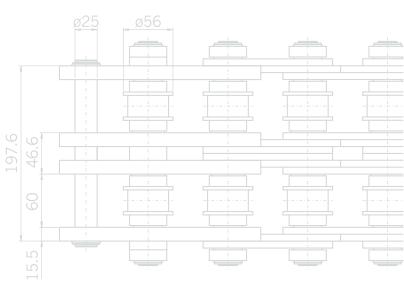
Storage racks and staging tables can be supplied in application-specific sizes.

GPO-TRUCK S









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SERAPID representative



www.serapid.com

SERAPID UK

5 Brentwood Close, Littleborough Lancashire OL 15 OND, UK

Phone +44 (0)170 637 62 30 Fax +44 (0)170 637 10 29

info-uk@serapid.com

SERAPID S.A.

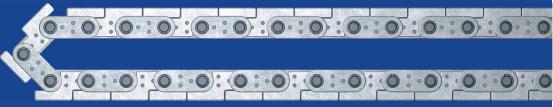
453, Route de Dieppe · B.P. 15 F-76660 Londinières

Tél. +33 (0)2 35 93 82 82 Fax +33 (0)2 35 94 10 93

info-fr@serapid.com

Luxembourg · Spain · Italy · The Netherlands · Denmark · Sweden · Finland · Norway · USA · Japan

France · United Kingdom · Germany · Switzerland · Belgium ·



SERAPID Deutschland GmbH

Brucknerstraße 9 D-97980 Bad Mergentheim Tel. +49 (0)7931 47 77 05 Fax +49 (0)7931 47 77 11

info-de@serapid.com

SERAPID USA INC.

6600 Sims Drive Sterling Heights MI 48313, USA Phone +1 586 274 0774 Fax +1 586 274 0775 info-us@serapid.com