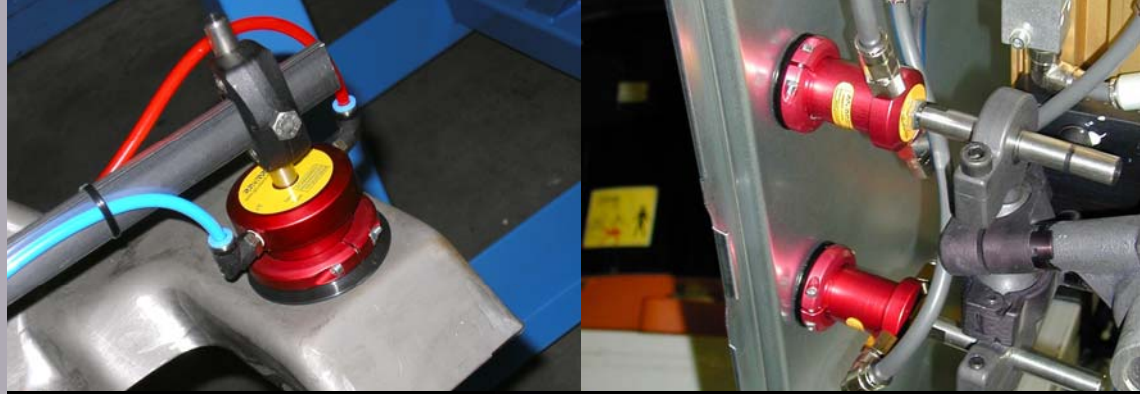


MagVacu® Combi Gripper, grabs all products

MagVacu®

Combi Gripper



Combi Gripper
English

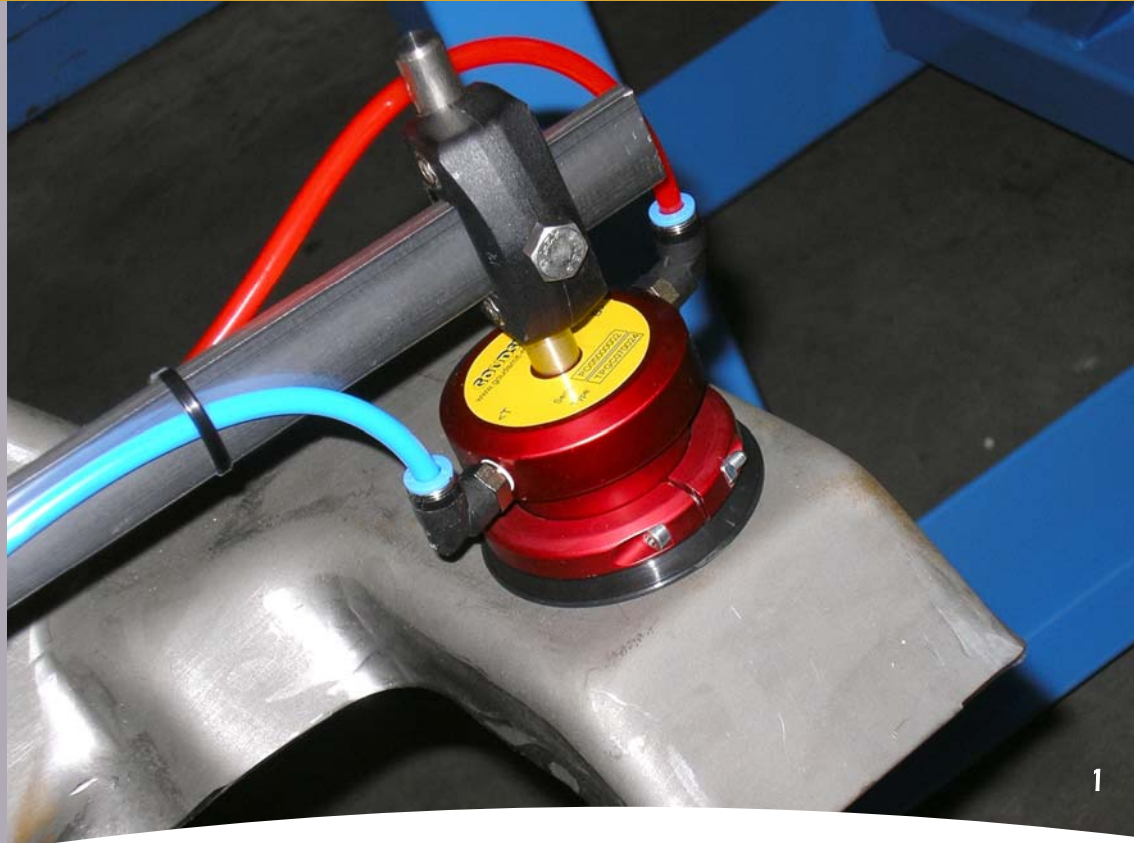
GOUDSMIT
MAGNETIC CONVEYING SYSTEMS



The most famous formula in the world is the one of Albert Einstein regarding the theory of relativity $E=mc^2$
 The new MagVacu® Combi Gripper works according a complete new GOUDSMIT formula being: **$E=mv^2$**

Efficient blank gripping = magnet & vacuum, 2x secure

MagVacu® Combi Gripper



The universal MagVacu® combi gripper knows more than one trick and is not picky. It lifts heavy steel plates and perforated products as well and also aluminium and stainless steel plates and products are no problem at all.

Therefore, these universal combi grippers are applicable in atomised processes on laser cutting machines, robotized press brakes and press transfer systems in the car and sheet metal work industry.

Technical data of TPMV MagVacu® Combi Grippers							
Type	Magnet System	Suction force in N*	Magnet force in N*	Combined force in N*	Suction pad material	Hardness Shore	Working temperature
TPMV040024	Neoflux® 4 pole	50	25	75	TPU black	50°	0°C-80°C
TPMV040028	Neoflux® 2 pole	50	40	90	TPU black	50°	0°C-80°C
TPMV070024	Neoflux® 6 pole	150	85	235	TPU black	55°	0°C-80°C
TPMV070026	Neoflux® 4 pole	150	120	270	TPU black	55°	0°C-80°C
TPMV070028	Neoflux® 2 pole	150	165	310	TPU black	55°	0°C-80°C
TPMV100024	Neoflux® 8 pole	320	180	500	TPU black	60°	0°C-80°C
TPMV100028	Neoflux® 4 pole	320	300	620	TPU black	60°	0°C-80°C

*The specified forces are theoretical values, they do not include a safety factor.

Allow for the combined force on un-perforated steel blanks, for the magnet force on perforated steel blanks, and for the suction force on aluminium and stainless steel blanks.

The MagVacu® Combi Gripper is patented

Patent Nr. :
EP 04078321.9.
US 11/007,478
JP 2004-354283
CN 200410098386.0



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In the new MagVacu® combi gripper two techniques are being combined, at which unique new characters arise. This innovative gripper exists out of a conventional vacuum suction pad, in which a powerful permanent magnet system is integrated.

Through the combination of vacuum and magnet power, sheet metal work can be handled with double power and double safety by means of this new combi gripper. The magnet field has as an additional effect that the steel sheets are always in full contact with the

suction pad, so leakage is provided. Through this combination of lifting power, heavy steel plates can be handled without any problem.

Through the sophisticated design of this permanent magnetic system, steel sheet metal work with holes or perforations can be handled as well with the new MagVacu® Combi Gripper. And last but not least, aluminium and stainless steel metal plates can be picked up effortlessly by means of the vacuum system with integrated suction pad.

Design data for TPMV MagVacu® Combi Grippers

Type	Diameter suction pad	Dimensions diameter x height	Central fixing thread hole	Number cylinder ports	Blow-off / switch-off pressure	Weight
TPMV040024	40mm	Ø40 x 35mm	M8 x 10	2x / M5	2,5bar	0,08kg
TPMV040028	40mm	Ø40 x 55mm	M8 x 10	2x / M5	3,0bar	0,10kg
TPMV070024	70mm	Ø70 x 46mm	M10 x 13	2x / G1/8"	2,5bar	0,32kg
TPMV070026	70mm	Ø70 x 63mm	M10 x 13	2x / G1/8"	3,0bar	0,36kg
TPMV070028	70mm	Ø70 x 80mm	M10 x 13	2x / G1/8"	3,5bar	0,38kg
TPMV100024	100mm	Ø100 x 46mm	M10 x 13	2x / G1/8"	2,5bar	0,56kg
TPMV100028	100mm	Ø100 x 63mm	M10 x 13	2x / G1/8"	3,0bar	0,68kg

(5) Combi grippers can easily be reconstructed to magnetic grippers called grab heads. Therefore the suction pad needs to be replaced by a friction ring. With this the vacuum is no longer needed and the gripper only works with magnetic force. The magnetic gripper can be easily switched on and off by means of compressed air and a 5/2 valve.



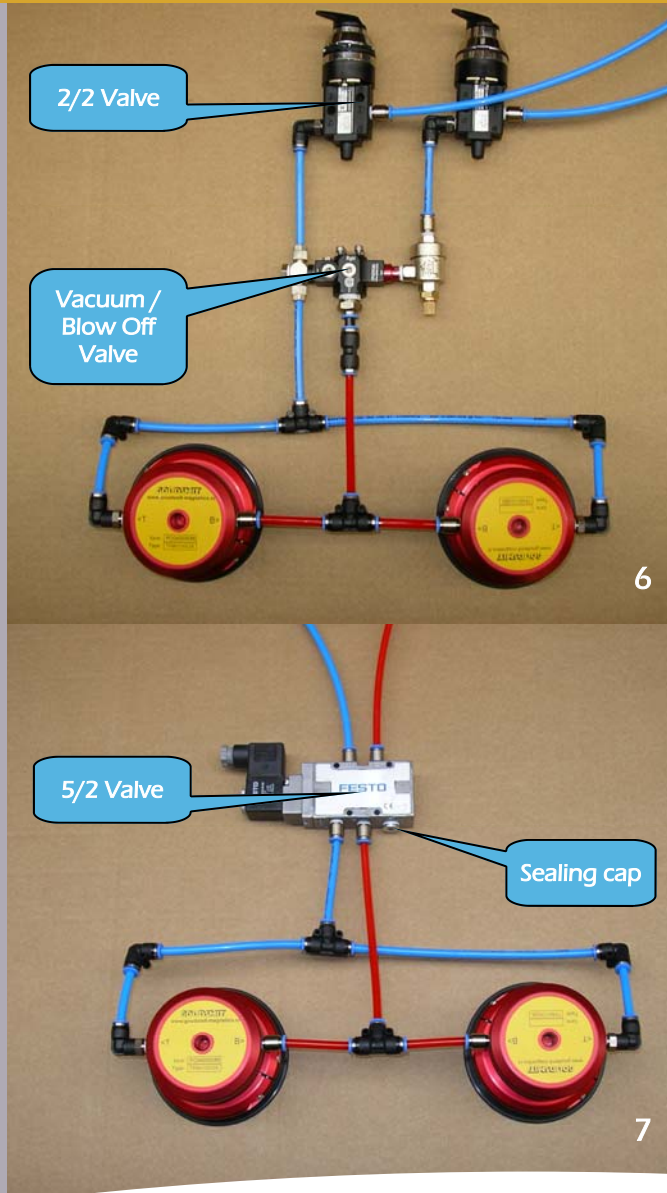
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- (1) With double force the MagVacu® combi grippers can handle steel products with double security.
- (2) A complete building range can be delivered.
- (3) Perforated steel plates can be handled with the help of the magnet system.
- (4) Suction pads and friction rings are easily to interchange / change

Connecting of MagVacu® combi grippers

With its broad and comprehensive assortment of magnetic products and equipment, GOUDSMIT Magnetic Conveying Systems has been striving since 1959 to be the best partner for companies that use magnetic transport systems. Using the strength of magnets, we build customised systems and components that guarantee totally effective and unique transportation methods.

Fast safe and flexible, but above all, effective.



(6) MagVacu® combi grippers can be easily connected with the help of the GOUDSMIT vacuum / blow off valve. This vacuum / blow off valve is executed with an internal vacuum venturi, a non-return valve and a quick exhaust valve. The red tube is the vacuum / blow off line and is connected to the B (bottom) gate of the combi grippers. The blue tube is the compressed air line and is connected to the T (top) gate of the combi grippers. With two manual or electrical served 2/2 valves, the vacuum / blow off valve is being controlled. Operation of the left valve and the combi grippers are switched on. Operation of the right valve and the combi grippers are switched off and blows off the products.

(7) If your machine is already executed with a vacuum pump, the combi grippers are being connected with a 5/2 valve. Here too, the red tube is the vacuum line, to be connected on the B (bottom) gate of the combi grippers. The blue one is the compressed air line and is connected on the T (top) gate of the combi grippers. By operating the 5/2 valve, the combi grippers are being switched off and the products blown off. You can always inquire us for further technical details and connection schemes.

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