

Vakuum PickUp Systeme  
zur Aufnahme von nicht magnetischen Schrauben

AIR VACUUM SYSTEMS  
Screwdriver accessory to hold screws



# SUMMARY

## AIR VACUUM SYSTEMS

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# SCREWDRIVER ACCESSORY TO HOLD SCREWS

The assembly of non-magnetic screws or small screws, is tricky and also difficult when access to the tightening point is restricted.

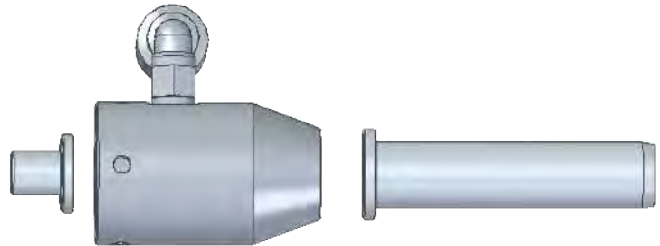
- ▶ Allow the screw to be held in position by vacuum to free the operator's hand and speed up the assembly process.
- ▶ Ease the tightening process in spaceless location.
- ▶ Avoid unexpected fall of screws into the parts.

## MAINS FEATURES

### Air vacuum kit

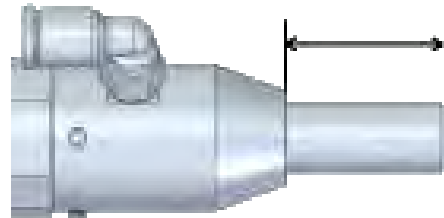
The kit is an accessory to be mounted on the screwdriver extremity and including :

- ▶ x1 vacuum system suitable with the screwdriver model
- ▶ x1 customized tube
- ▶ x1 bit guiding ring



### Tube

- ▶ Machined according to the screw head.
- ▶ Direct contact with the product
- ▶ The tube diameter must be greater than or equal to the screw head diameter +2 mm.
- ▶ Free tube length on the kit endpoint from 25 to 35 mm.



If one of the hereabove characteristics is not suitable with your application, please contact us for a special design and fulfill the questionnaire of page 11.


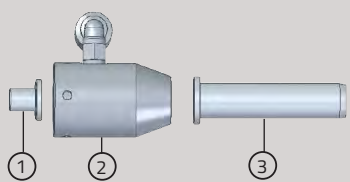


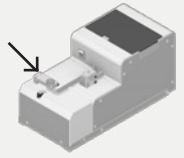









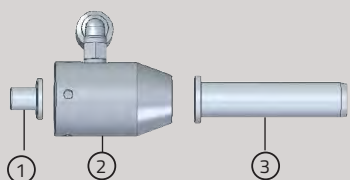


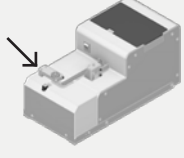










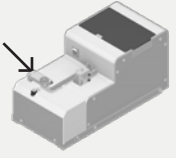






### Bit

- ▶ Customized according to your screw diameter and screwhead foot print.

### Screwdriver

- ▶ To be used with trigger start or external start screwdrivers.

# VACUUM SYSTEM COMBINATIONS

		Optional accessories		
Assembly tool model	Vacuum system composition	Bit model to select according to the screw features	Vacuum generator	Support and guide for tube
<b>Torque and angle current control tool</b> Models : MD26 / MD32 / MDA26 / MDA32 	① Bit guiding ring ② Vacuum system ③ Customized tube 	PH / PZ bits LG 89 mm* 	Standard vacuum generator 	Support and guide for NJR or NSR screwfeeder  
		Precision bit PH / PZ LG 100 mm* 	High vacuum generator 	
		Bit for socket head (Hex int) screws LG 100 mm* 	Vacuum pump 	
		Torx bits LG 89 mm 		
<b>Torque and angle current control tool</b> Models : MD22 		Bit PH / PZ / TX LG 64 mm half moon 4 mm 		
<b>Shut-off brushless electric tool</b> Models : GX 30V / GX 40V 	① Bit guiding ring ② Vacuum system ③ Customized tube 	Bit PH / PZ LG 89 mm* 	Standard vacuum generator 	Support and guide for screwfeeder - NJR or NSR range  
		Precision bit PH / PZ LG 100 mm* 	High vacuum generator 	
		Bit for socket head (Hex int) screws LG 100 mm* 	Vacuum pump 	
		Bit for Torx LG 89 mm 		
<b>Electric screwdriver</b> Models : DLV 7325 CKE DLV 7335 CKE DLV 7321 BKE 	Tailor-made tube to be mounted directly at the end of the vacuum system integrated into the screwdriver. 	Bit PH / PZ LG (special on request)* 	Standard vacuum generator 	Support and guide for screwfeeder - NJR or NSR range  
	Precision bit PH / PZ LG (special on request)* 	High vacuum generator 		
	Bit for socket head (Hex int) screws LG (special on request)* 	Vacuum pump 		
	Bit for Torx LG (70 mm) 			

\* To be customized according to the screw features, sold in sets of 10 bits.

# ACCESSORIES

## Vacuum generator

### Venturi vacuum generator

#### High vacuum generator



Mounting position	Indifferent
Design	Straight shape
Rated operation pressure	6 bar
Operating pressure at max. suction flow rate	5 bar
Operating pressure at max. vacuum	5,8 bar
Max. vacuum	86 %
Max suction capacity	28 l/min
Pressure build-up time at nominal working pressure	0,96 s
Operating fluid	Compressed air according ISO8573-1:2010 [7:4:4]
Control and pilot fluid	Operation with lubrication not possible
Corrosion resistance class KBK	1 - low corrosion effects
Fluid temperature	0 to 60 °C
Ambiant temperature	0 to 60 °C
Max tightening torque	-
Weight	23 g
Fixing method	In line on hose
Compressed air supply connection	Push-in connector 6 mm
Exhaust connection	Unchannelled
Vacuum connection	Push-in connector 6 mm

## Vacuum pump

### Vacuum pump



Supply voltage	230 V AC 50/60 Hz
Power	30 W
Vacuum supplied	-21,3 Kpa
Flow rate	24 l/min.
Weight	3,8 kg

## Sleeve support and guide

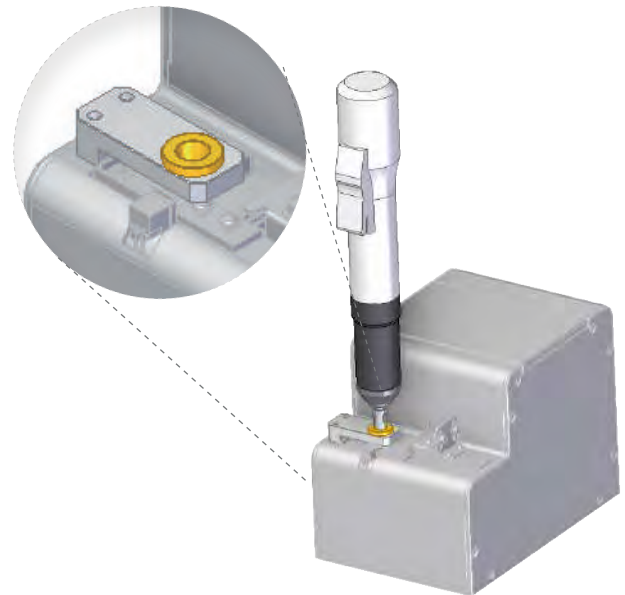
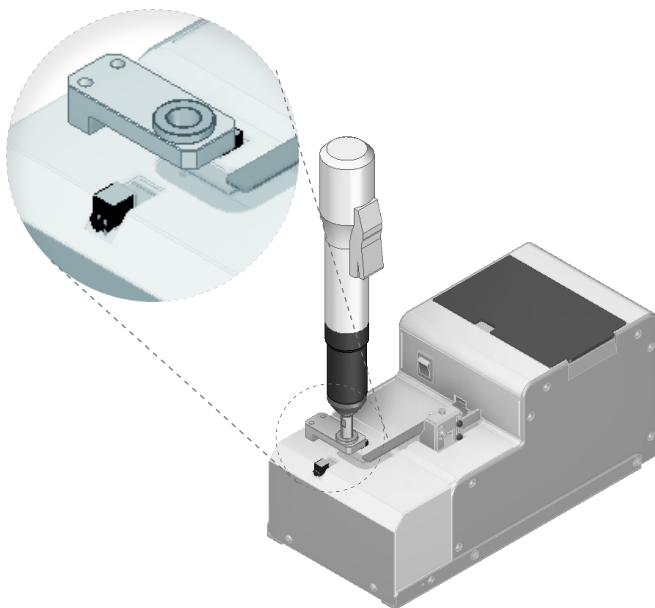
For hidden time distribution of the screw we recommend the use of our screwfeeders NJR / NSR range, and thus increase your productivity.

In order to ease the centering of the tube on the screw located in the rail of the screwfeeder, we recommend you to equip the screwfeeder with a centering guide.

The inside diameter of the guide must correspond to the diameter of the tube.

### NSR screwfeeder

### NJR screwfeeder

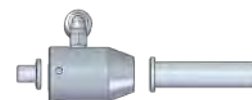


The mounting of the guide and support on the distributor can be carried out by our technical services (service to be ordered).

# PRODUCT AND SERVICE REFERENCES

## Complete vacuum kits

(include the vacuum system, customized tube and the bit guiding ring)\* :



Model	Code
Complete vacuum kit for GX30V with torque adjustment ring access	4-1525009
Complete vacuum kit for GX30V without torque adjustment ring access	4-1525012
Complete vacuum kit for GX40V	4-1525014
Complete vacuum kit for MD26-A and MDA26-A / MDT26-A / MDTA26-A**	4-1525015
Complete vacuum kit for MD32-A and MDA32-A / MDT32-A / MDTA32-A**	4-1525017
Complete vacuum kit for MD22-E and MDA22-E**	4-1500045

\* Cost of study and realization of customized tube and guiding ring are included.

\*\* Vacuum systems can be installed on MDA and MDTA spindles only if they are not equipped with telescopic cushion.

## Steel tube for vacuum system integrated to the DELVO screwdrivers DLV 7325/35 CKE & 7321 BKE :



Model	Code
Steel tube for DELVO® vacuum system (cost of study and realization included)	4-1525021

## Steel spare tubes for vacuum system\* :



Model	Code
Steel spare tube for DELVO® vacuum system (according to existing drawing)	4-3006014
Steel spare tube for GX30V vacuum system (according to existing drawing)	4-1525022
Steel spare tube for GX40V vacuum system (according to existing drawing)	4-1525023
Steel spare tube for MD26-A and MDA26-A / MDT26-A / MDTA26-A** vacuum system (according to existing drawing)	4-1525024
Steel spare tube for MD32-A and MDA32-A / MDT32-A / MDTA32-A** vacuum system (according to existing drawing)	4-1525025
Steel spare tube for MD22-E and MDA22-E** vacuum system (according to existing drawing)	4-1500053

\* Codes to be used only for ordering a tube same as one already delivered (please indicate the existing drawing number on your order).

\*\* Vacuum systems can be installed on MDA and MDTA spindles only if they are not equipped with telescopic cushion.

## Bits

(footprint to be specified when ordering)



Model	Code
Bit PH / PZ LG 89 mm for vacuum kit (pack of 10 bits)	4-1525026
Precision bit PH / PZ LG 100 mm for vacuum kit (pack of 10 bits)	4-1525027
Bit for socket head (Hex int) screws LG 100 mm for vacuum kit (pack of 10 bits)	4-1525028
Bit PH / PZ / TX LG 64 mm for vacuum kit MD 22 (pack of 10 bits)	See doc.60292
Bit for Torx LG 70 mm exclusively for Delvo screwdriver	See doc.60292
Bit PH / PZ / socket head (Hex int) exclusively for Delvo screwdriver	On request

## Vacuum systems (sold separately\*)



Model	Code
Vacuum system GA / GX30V	4-1052500
Vacuum system GX30V V2 with torque ring access	4-1084103
Vacuum system GX30V V2 without torque ring access	4-1084104
Vacuum system GX150/GX220 ESD-G	4-1084100
Vacuum system GX450 ESD-G	4-1084101
Vacuum system GXA ESD-G 40V	4-1084102
Vacuum system GXA ESD-G 30V	4-1000039
Vacuum system GX MICRO	4-1052501
Vacuum system GX150/GX220-H	4-1027496
Vacuum system GX450-H	4-1027497
Vacuum system GXA-H 40V	4-1027498
Vacuum system HDA	4-1042228
Vacuum system HD150-G	4-1052508
Vacuum system M20 Hex1/4 MD26xx-A, MD3201-A, MD3202-A MDA26xx-A, MDA3201-A, MDA3202-A** MDT2604-A to MDT2616-A	4-1050589
Vacuum system M23 Hex 1/4 MD3204-A to MD3216-A MDA3204-A to MDA3216-A** MDT3204-A, MDT3206-A/L to MDT3216-AL MDTA3204-A to MDTA3216-A**	4-1050590
Vacuum system M20 4 mm half moon MD2601-E/MD2602-E MDA2601-E/MDA2602-E**	4-1050591
Vacuum system M16 4 mm half moon MD2201, MD2203 MDA2201, MDA2203**	4-1050752

\* Delivered without tube and bit guiding ring (please use those codes only if you want to build your own vacuum tubes and bit guiding rings).

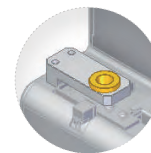
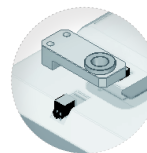
\*\* Vacuum systems can be installed on MDA and MDTA spindles only if they are not equipped with telescopic cushion.

## Vacuum generator



Model	Code
High vacuum generator	4-3000032
Vacuum pump DLP2570	4-3004101

## Support and guide for tube on feeder NJR / NSR




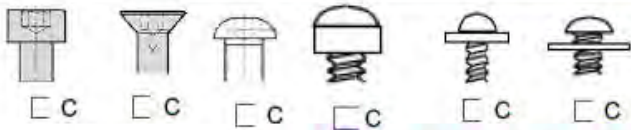

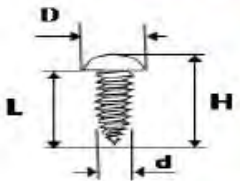
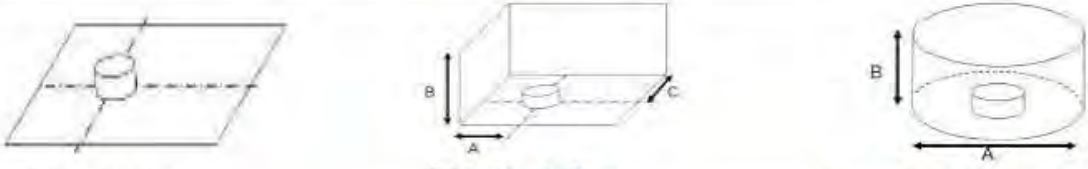
Model	Code
Support and guide for tube GX30V	4-1525007
Support and guide for tube GX40V	4-1525029
Support and guide for tube MD26	4-1525030
Support and guide for tube MD32	4-1525031
Support and guide for tube MD22	4-1500046

## Mounting service



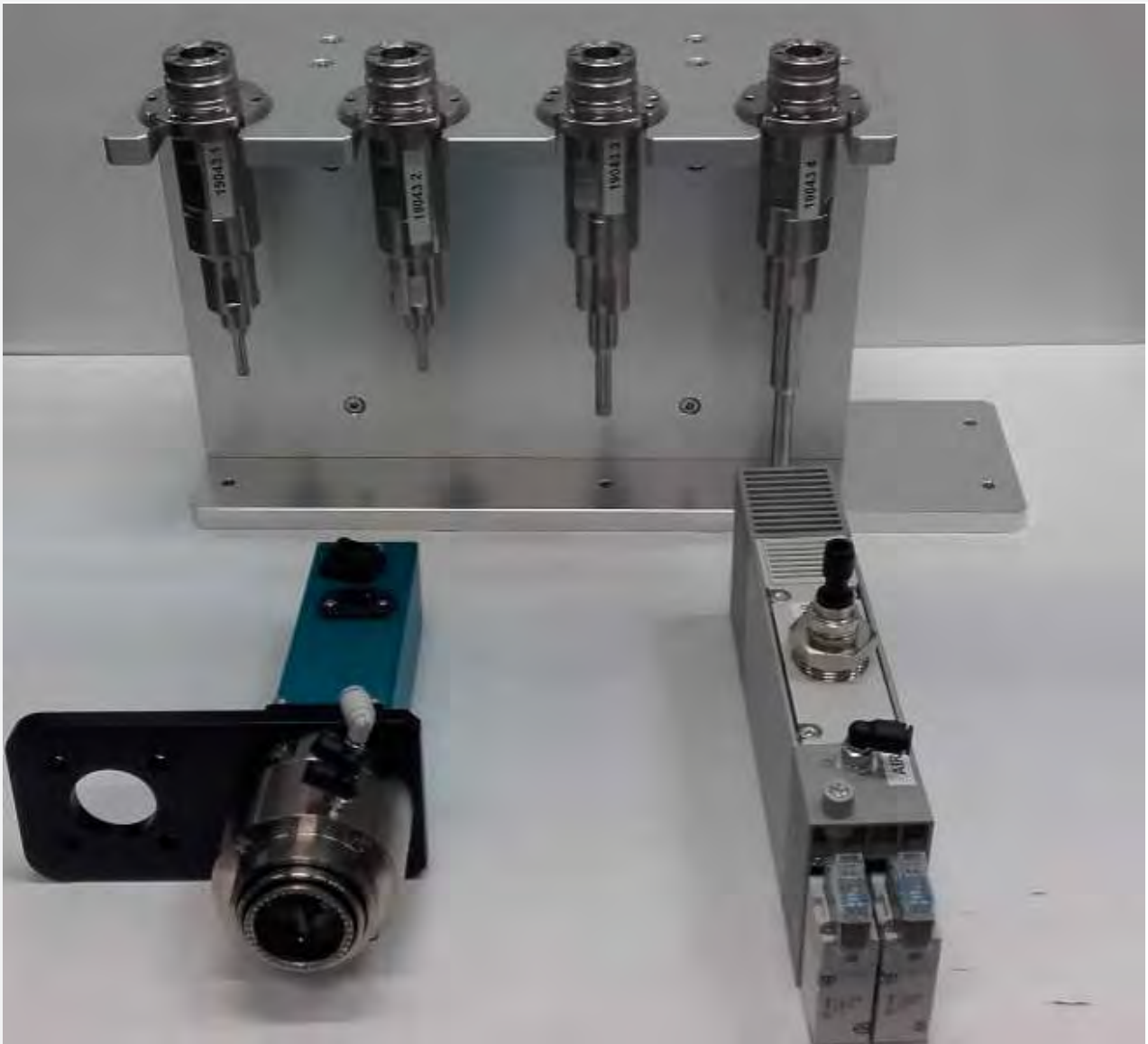
Model	Code
Support and guide mounting on NJR/NSR (1 hour) "	4-1525011

# AIR VACUUM SYSTEM INQUIRY

	<b>AIR VACUUM SYSTEM &amp; SLEEVES</b> <b>INQUIRY</b>												
Customer number													
Company :	Quote :												
Application Data													
<input type="checkbox"/> Direct contact with the product possible	Torque Nm <input type="text"/> %												
<input type="checkbox"/> Tightening through a guiding mask <small>To be specified in complementary informations</small>													
Screw specification													
													
<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>													
													
<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>													
Please supply screw sample + Drawing													
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D	<input type="text" value="#NA"/>												
L	<input type="text" value="#NA"/>												
H	<input type="text" value="#NA"/>												
d	<input type="text" value="#NA"/>												
Part and screw surrounding area													
													
<input type="checkbox"/> No restriction	<input type="checkbox"/> 2 sides built up	<input type="checkbox"/> Screw in a hole											
<span style="background-color: #00FFFF; padding: 2px;">A</span> <input type="text"/>	<span style="background-color: #00FFFF; padding: 2px;">B</span> <input type="text"/>	<span style="background-color: #00FFFF; padding: 2px;">C</span> <input type="text"/>											
Screwdriver and screwfeeder references													
<table style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="2" style="text-align: left; border-bottom: 1px solid black;">Screwdriver</th> <th colspan="2" style="text-align: left; border-bottom: 1px solid black;">screwfeeder</th> </tr> <tr> <td style="width: 25%; border-bottom: 1px solid black;">Code</td> <td style="width: 75%; border-bottom: 1px solid black;">Model</td> <td style="width: 25%; border-bottom: 1px solid black;">Code</td> <td style="width: 75%; border-bottom: 1px solid black;">Model</td> </tr> <tr> <td style="background-color: #ffff00;"></td> <td style="background-color: #ffff00;"></td> <td style="background-color: #ffff00;"></td> <td style="background-color: #ffff00;"></td> </tr> </table>		Screwdriver		screwfeeder		Code	Model	Code	Model				
Screwdriver		screwfeeder											
Code	Model	Code	Model										
<input type="checkbox"/> Sleeve support and guide on the screwfeeder <input type="text"/>													
Complementary informations													

## SPECIAL APPLICATION CASE

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### QUICK CHANGE OF VACUUM SYSTEM

Automation of the tightening of several screws of different types on a robotic installation where the distribution of the screws is ensured by a rail distributor with a screw intake by aspiration.

## YOU NEED A TAILOR-MADE SOLUTION?

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Support: [www.dogatec.de](http://www.dogatec.de)

# DOGATEC

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