

Atlas Copco



# Atlas Copco Vacuum Solutions

Vacuum pumps and systems for  
industrial applications

# Oil-sealed vacuum pumps

## GHS 350-5400 VSD<sup>+</sup> Oil-sealed rotary screw vacuum pumps with VSD technology



Model @50 - 60Hz	Pumping speed* m <sup>3</sup> /hr (cfm)	Nominal power kW (hp)	Max. vacuum mbar.a (torr)
GHS 350 VSD*	72-400 (42-240)	5.5 (7.4)	0.35 (0.26)
GHS 585 VSD*	72-560 (42-330)	7.5 (10)	0.35 (0.26)
GHS 730 VSD*	72 - 730 (42-430)	11 (14.8)	0.35 (0.26)
GHS 900 VSD*	72 - 870 (42-510)	15 (20)	0.35 (0.26)
GHS 1300 VSD***	139-1250 (82-736)	22 (29)	0.35 (0.26)
GHS 1600 VSD***	139-1590 (82-936)	30 (40)	0.35 (0.26)
GHS 1900 VSD***	139-1810 (82-1065)	37 (50)	0.35 (0.26)
GHS 3800 VSD*	937-3828 (551-2253)	55 (74)	0.35 (0.26)
GHS 4600 VSD*	937-4478 (551-2636)	75 (101)	0.35 (0.26)
GHS 5400 VSD*	937-5004 (551-2945)	90 (121)	0.35 (0.26)

\*At operating vacuum level of 100mbar.a  
\*\*GHS 1300/1600/1900 VSD\* available only in Asia  
Available in air-cooled and water-cooled variants

## GVS 16-630 A Oil-sealed single stage rotary vane vacuum pumps



Model @50 - 60Hz	Flow m <sup>3</sup> /h (cfm)	Nominal power kW (hp)	Max. vacuum mbar.a (torr)
GVS 16 A	16-19 (9-11)	0.75 (1)	0.5 (0.4)
GVS 25 A	25-29 (15-17)	0.75 (1)	0.5 (0.4)
GVS 40 A	44-53 (26-31)	1.1 (1.5)	0.5 (0.4)
GVS 60 A	59-71 (35-42)	1.5 (2.2)	0.5 (0.4)
GVS 100 A	98-117 (57-69)	2.2 (3)	0.5 (0.4)
GVS 220 A	200-240 (118-141)	4.5 (6)	0.1 (0.08)
GVS 300 A	280-340 (165-200)	5.5 (7.5)	0.1 (0.08)
GVS 630 A	700-840 (412-494)	15 (20)	0.1 (0.08)

## GHS 1202-2002 VSD<sup>+</sup> 2<sup>nd</sup> Generation oil-sealed rotary screw vacuum pumps with HPM\*\* motor and HEX@™ controller



Model @50 - 60Hz	Pumping speed* m <sup>3</sup> /hr (cfm)	Nominal power kW (hp)	Max. vacuum mbar.a (torr)
GHS 1202 VSD*	114-1172 (67-690)	18.5 (24.8)	0.35 (0.26)
GHS 1402 VSD*	114-1383 (67-814)	22 (29.5)	0.35 (0.26)
GHS 1602 VSD*	114-1581 (67-930)	30 (40)	0.35 (0.26)
GHS 2002 VSD*	114-1771 (67-1042)	37 (50)	0.35 (0.26)

\*At operating vacuum level of 100 mbar.a  
\*\*High efficiency IE5 Permanent Magnet Motor

## GVS VSD<sup>+</sup> Series Oil-sealed rotary vane vacuum pumps with VSD



HMI on your Smartphone App

Model @50 - 60Hz	Flow m <sup>3</sup> /h (cfm)	Nominal power kW (hp)	Max. vacuum mbar.a (torr)
GVS 80 VSD*	51-78 (30-45)	2.2 (3)	0.5 (0.37)
GVS 120 VSD*	84-117 (49-68)	3.7 (5)	0.5 (0.37)
GVS 255 VSD*	119-250 (70-147)	7.5 (10)	0.3 (0.22)
GVS 400 VSD*	187-381 (110-206)	11 (15)	0.3 (0.22)

## GVD 0.7-275 Two stage oil-sealed rotary vane vacuum pumps



Model @50 - 60Hz	Flow m <sup>3</sup> /h (cfm)	Nominal power kW (hp)	Max. vacuum mbar.a (torr)
GVD 0.7	0.75-0.95 (0.4-0.5)	0.09 (0.12)	3.0x10 <sup>-3</sup> (2.2x10 <sup>-3</sup> )
GVD 1.5	1.6-2 (0.8-1.2)	0.16 (0.21)	3.0x10 <sup>-3</sup> (2.2x10 <sup>-3</sup> )
GVD 3	3.3-3.9 (2.0-2.3)	0.45 (0.60)	2.0x10 <sup>-3</sup> (1.5x10 <sup>-3</sup> )
GVD 5	5.1-6.2 (3.0-3.7)	0.45 (0.60)	2.0x10 <sup>-3</sup> (1.5x10 <sup>-3</sup> )
GVD 8	8.5-10 (5.0-5.9)	0.45 (0.60)	2.0x10 <sup>-3</sup> (1.5x10 <sup>-3</sup> )
GVD 12	12-14.2 (7.1-8.4)	0.45 (0.60)	2.0x10 <sup>-3</sup> (1.5x10 <sup>-3</sup> )

Model @50 - 60Hz	Flow m <sup>3</sup> /h (cfm)	Nominal power kW (hp)	Max. vacuum mbar.a (torr)
GVD 18	17-20.4 (10-12.1)	0.55 (0.73)	1.0x10 <sup>-3</sup> (0.7x10 <sup>-3</sup> )
GVD 28	27.5-33 (16.2-19.5)	0.75 (1.0)	1.0x10 <sup>-3</sup> (0.7x10 <sup>-3</sup> )
GVD 40	37-44 (21.8-25.9)	1.1 (1.4)	1.0x10 <sup>-3</sup> (0.7x10 <sup>-3</sup> )
GVD 80	74-90 (43.6-53)	2.2 (2.9)	1.0x10 <sup>-3</sup> (0.7x10 <sup>-3</sup> )
GVD 175*	160-196 (94-115)	5.5 (7.3)	1.0x10 <sup>-3</sup> (0.7x10 <sup>-3</sup> )
GVD 275*	255-306 (150-180)	7.5 (10.0)	1.0x10 <sup>-3</sup> (0.7x10 <sup>-3</sup> )

\*Water-cooled variants

# Oil-free dry vacuum pumps

## DZS A Series Dry mono claw vacuum pumps Stainless Steel and PTFE coated process wetted parts



Model @50 - 60Hz	Flow m <sup>3</sup> /h (cfm)	Nominal power kW (hp)	Max. vacuum mbar.a (torr)
DZS 065A	65-78 (38-47)	1.8/2.2 (2.0-3.0)	50 (37.5)*
DZS 150A	150-180 (88-104)	3.7/3.7 (5.0-5.0)	50 (37.5)*
DZS 300A	300-360 (176-208)	6.2/7.5 (8.3-10)	140 (105)*

Model @50 - 60Hz	Flow m <sup>3</sup> /h (cfm)	Nominal power kW (hp)	Max. pressure bar.g (psi)
DZS 065AP	65-78 (39-46)	3.7/3.7 (5.0-5.0)	1.8 (26.1)*
DZS 150AP	150-180 (88-106)	11/15 (14.7-20.1)	2.3 (33.3)*
DZS 300AP	300-360 (140-165)	19/22 (25.5-29.5)	2.3 (33.3)*

A = Vacuum variants, AP = Pressure variants | Bare shaft and Oxygen certified variants available  
\*Applicable for continuous duty application

## DZS V Series Large capacity dry claw vacuum pumps PEEKCOAT on process wetted parts and rotors



Model @50 - 60Hz	Flow m <sup>3</sup> /h (cfm)	Nominal power kW (hp)	Max. vacuum mbar.a (torr)
DZS 500 V	500-600 (294-353)	9.2-11 (12.3-14.7)	200 (150)*
DZS 1000 V	950-1140 (558-670)	18.5-22 (25-30)	200 (150)*

\*Applicable for continuous duty application | Bare shaft variants available

## DZS VSD<sup>+</sup> Series Dry claw vacuum pumps with VSD

Stainless Steel and PTFE coated process wetted parts  
HMI on your smartphone App



Model @50 - 60Hz	Flow m <sup>3</sup> /h (cfm)	Nominal power kW (hp)	Max. vacuum mbar.a (torr)
DZS 100 VSD*A	105 (62)	3 (5)	50 (37.5)*
DZS 200 VSD*A	189 (111)	5.5 (7)	50 (37.5)*
DZS 400 VSD*A	398 (234)	11 (15)	140 (105)*

VSD\*A = Variable speed variants | Connectivity through Bluetooth, ModBUS RTU as standard | \*Applicable for continuous duty application

## DWS 200-500 Dry screw fixed speed vacuum pumps



Model @50 - 60Hz	Flow m <sup>3</sup> /h (cfm)	Nominal power kW (hp)	Max. vacuum mbar.a (torr)
DWS 200*	210 (124)	5.5 (7.3)	0.05 (0.04)
DWS 300*	280 (165)	7.5 (10.0)	0.01 (0.008)
DWS 500**	460 (271)	11 (14.75)	0.01 (0.008)

\* Air-cooled and water-cooled variants | \*\* Only water-cooled variants  
Bare shaft variants available

## DSS Series Dry scroll vacuum pumps



Model @50 - 60Hz	Flow m <sup>3</sup> /h (cfm)	Nominal power kW (hp)	Max. vacuum mbar.a (torr)
DSS 065	72-86 (42-51)	1.5-2.2 (2-3)	1.5 (1.13)
DSS 100	100 (59)	2.2 (3)	1.5 (1.13)

## DZM VSD<sup>+</sup> Series Dry multi-claw vacuum pumps with VSD



Model @50 - 60Hz	Flow m <sup>3</sup> /h (cfm)	Nominal power kW (hp)	Max. vacuum mbar.a (torr)
DZM 1200 VSD*A**	24-1170 (14-688)	1.2-33 (1.74-44)	150 (112.5)*
DZM 1600 VSD*A**	24-1560 (14-918)	1.2-44 (1.74-59)	150 (112.5)*

\* Applicable for continuous duty application | \*\*3xDZS 400 A and 4xDZS 400 A

## DB Series Side Channel Blowers



Model @50 - 60Hz	Flow m <sup>3</sup> /h (cfm)	Nominal power kW (hp)	Max. vacuum mbar.g (torr)
DBS (Single/Mono)	74 - 1022 (43.5-601.5) 89-1234 (52.4-726.3)	0.37 - 15 (0.5-20) 0.4 - 22 (0.5-29.5)	-100 — -350 (675-488) -75 — -325 (694-506)
DBSt (Single/Twin)	408 - 1985 (240-1168) 493 - 2382 (290-1402)	3.0 - 22.0 (4-29.5) 3.5 - 26 (4.7-35)	-130 — -300 (652-525) -105 — -300 (671-525)
DBD (Double/Mono)	91 - 430 (53.6-253) 110 - 519 (64.7-305.5)	1.1 - 7.5 (1.5-10) 1.3 - 11 (1.7-14.7)	-300 — -450 (525-412) -300 — -450 (525-412)
DBDt (Double/Twin)	139 - 1007 (81.8-593) 168 - 1216 (99-715.73)	2.2 - 22.0 (3-29.5) 2.6 - 26 (3.5-35)	-275 — -450 (544-420) -225 — -475 (581-394)

## DZS VSD<sup>+</sup> Series Large capacity dry claw vacuum pumps with VSD

PEEKCOAT on process wetted parts and rotors  
HMI on your smartphone App



Model @50 - 60Hz	Flow m <sup>3</sup> /h (cfm)	Nominal power kW (hp)	Max. vacuum mbar.a (torr)
DZS 600 VSD*	600 (360)	11 (15)	200 (150)*
DZS 1200 VSD*	1140 (670)	22 (29.5)	200 (150)*

\* Applicable for continuous duty application

## DWS VSD<sup>+</sup> Series Dry screw vacuum pumps with built-in VSD



Model @50 - 60Hz	Flow m <sup>3</sup> /h (cfm)	Nominal power kW (hp)	Max. vacuum mbar.a (torr)
DWS 450 VSD* **	450 (265)	11 (15)	0.01 (0.008)
DWS 750 VSD* **	750 (435)	22 (29.5)	0.01 (0.008)

\* Nominal motor power at atmospheric pressure level | \*\* Only water-cooled variants  
Booster support brackets available

## DVS Series Dry rotary vane vacuum pumps



Model @50 - 60Hz	Flow m <sup>3</sup> /h (cfm)	Nominal power kW (hp)	Max. vacuum mbar.a (torr)
DVS 5	5-6 (3-3.5)	0.12-0.15 (0.16-0.2)	120 (90)
DVS 8	8-9 (4.7-5.3)	0.25-0.3 (0.33-0.4)	150 (112.5)
DVS 16	16-19 (9.4-11)	0.75-0.9 (1.0-1.2)	120 (90)
DVS 25	25-29 (14.7-17)	0.75-0.9 (1.0-1.2)	120 (90)
DVS 40	40-48 (23.5-28)	1.3-1.5 (1.7-2.0)	120 (90)
DVS 60	60-70 (35.3-41)	1.5-1.8 (2.0-2.4)	150 (112.5)
DVS 80	80-90 (47-53)	2.2-3.0 (2.9-4.0)	150 (112.5)
DVS 100	100-115 (59-67.7)	3.4-4.0 (4.5-5.3)	150 (112.5)
DVS 140	130-150 (76.5-88)	3.4-4.0 (4.5-5.3)	150-200 (112.5-150)

## DRB 250-2000 & 1500-3000 VSD<sup>+</sup> Dry vacuum booster pumps

HMI on your smartphone App



Model @50 - 60Hz	Flow m <sup>3</sup> /h (cfm)	Nominal power kW (hp)	Max. Delta P mbar (torr)
DRB 250	253-304 (149-179)	1.1 (1.5)	80 (60)
DRB 500	505-606 (297-357)	2.2 (3.0)	80 (60)
DRB 1000	1000-1200 (589-707)	4 (5.4)	80 (60)
DRB 2000	2050-2460 (1208-1449)	7.5 (10.0)	80 (60)
DRB 1500 VSD*	1500 (884)	4 (5.4)	80 (60)
DRB 3000 VSD*	3000 (1767)	7.5 (10.0)	50 (38)

## ZRS 250-4200 Dry vacuum booster pumps



Model @50 - 60Hz	Flow m <sup>3</sup> /h (cfm)	Nominal power kW (hp)	Max. Delta P mbar (torr)
ZRS 250	310-375 (185-220)	2.2 (3)	150-180 (115-140)
ZRS 500	505-605 (300-335)	2.2 (3)	90-110 (68-83)
ZRS 1200*	1195-1435 (715-845)	3 (4)	75-90 (56-68)
ZRS 2600*	2590-3110 (1525-1830)	11 (15)	67-80 (50-60)
ZRS 4200*	4140-4985 (2440-2935)	11 (15)	50-60 (38-45)

\*Water-cooled variants



# Liquid ring vacuum pumps

## LRP VSD+ Series

Intelligent liquid ring vacuum pump with VSD technology



Model @50 - 60Hz	Flow m³/h (cfm)		Nominal power kW (hp)	Max. vacuum mbar.a (torr)
	Dry	Saturated		
LRP 700 VSD+	740 (436)	910 (536)	18.5 (24.8)	25 (18.75)
LRP 900 VSD+	940 (553)	1090 (642)	26 (34.9)	25 (18.75)
LRP 1000 VSD+	1050 (618)	1140 (671)	37 (49.6)	25 (18.75)

Available in once-through, partial recirculation and total recovery options

## AWC Series

Single stage liquid ring vacuum pumps



Model @50 - 60Hz	Flow m³/h (cfm)	Nominal power kW (hp)	Max. vacuum mbar.a (torr)
AWC 30	20-30 (12-18)	0.81-1 (1.08-1.36)	33 (24.75)
AWC 50	52-60 (24-35)	1.45-1.8 (1.8-2.5)	33 (24.75)
AWC 80	80-90 (47-53)	2.35-2.8 (3.2-3.8)	33 (24.75)
AWC 110	110-120 (65-70)	3.7- 4.5 (5-6.1)	33 (24.75)
AWC 160	161-175 (95-103)	4-5.5 (5.4-7.4)	33 (24.75)
AWC 220	223-252 (131-148)	5.5-7.5 (7.4-10.1)	33 (24.75)
AWC 290	272-301 (160-177)	7.5-11 (10.1-14.7)	33 (24.75)
AWC 390	375-392 (221-231)	11-15 (14.7-20.1)	33 (24.75)
AWC 500	485-524 (285-308)	15-18.5 (20.1-24.8)	33 (24.75)

Flow values mentioned are based on saturated air

## AWC A & AWS A Series

Single stage liquid ring vacuum pumps



Model @50 - 60Hz	Flow m³/h (cfm)	Nominal power kW (hp)	Max. vacuum mbar.a (torr)
AWC 25 A	25-31 (15-18)	0.9-1.1 (1.2-1.4)	33 (24.75)
AWC 45 A	45-58 (26-34)	1.9-2.2 (2.5-2.9)	33 (24.75)
AWC 80 A	80-100 (47-59)	3-3.7 (4-4.9)	33 (24.75)
AWC 110 A	110-136 (65-80)	3-3.7 (4-4.9)	33 (24.75)
AWC 140 A	134-165 (79-97)	3.7-5.6 (4.9-7.5)	33 (24.75)
AWC 190 A	190-234 (112-138)	5.6-7.5 (7.5-10)	33 (24.75)
AWC 280 A	279-342 (164-201)	7.5-11 (10-14.7)	33 (24.75)
AWC 350 A	350-432 (206-254)	11-15 (14.7-20.1)	33 (24.75)
AWS 530 A	528-650 (311-382)	15-19 (20.1-25.4)	33 (24.75)
AWS 750 A	753-926 (443-545)	22-30 (29.5-40.2)	33 (24.75)
AWS 980 A	980-1252 (577-737)	30-37 (40.2-49.6)	33 (24.75)
AWS 1400 A	1380-1764 (812-1038)	45-56 (60.3-75)	33 (24.75)

## AWL Series

Single stage liquid ring vacuum pumps



Model @50 - 60Hz	Flow m³/h (cfm)	Nominal power kW (hp)	Max. vacuum mbar.a (torr)
AWL 4000	4120-4290 (2425-2525)	160 (240)	160 (120)
AWL 5500	5310-5580 (3125-3284)	185 (248)	160 (120)
AWL 7000	6596-6900 (3882-4061)	185 (248)	160 (120)
AWL 9500	8730-9200 (5138-5415)	200 (268)	160 (120)
AWL 12500	11931-12500 (7022-7357)	280 (375)	160 (120)
AWL 15000	14259-15000 (8393-8829)	315 (422)	160 (120)
AWL 17500	16490-17400 (9706-10241)	400 (536)	160 (120)
AWL 21500	20176-21300 (11875-12537)	450 (603)	160 (120)
AWL 26000	24250-25800 (14273-15185)	560 (751)	160 (120)
AWL 30000	28615-30000 (16842-17657)	630 (845)	160 (120)
AWL 37500	35580-36600 (20941-21542)	800 (1072)	160 (120)

Flow values mentioned are based on saturated air

## AWD & AWD A Series

Two stage liquid ring vacuum pumps



Model @50 - 60Hz	Flow m³/h (cfm)	Nominal power kW (hp)	Max. vacuum mbar.a (torr)
AWD 200	200-260 (118-153)	6-9 (8-12)	33 (24.75)
AWD 400	400-470 (235-277)	11-14 (15-19)	33 (24.75)
AWD 610	750-880 (441-528)	23-32 (31-43)	33 (24.75)
AWD 1230	1250-1450 (736-853)	34-48 (45-64)	33 (24.75)
AWD 1680	1685-1950 (992-1148)	43-60 (58-80)	33 (24.75)
AWD 1960	2000-2400 (1177-1412)	52-68 (70-91)	33 (24.75)
AWD 3280	3300-4100 (1942-2413)	96-135 (129-181)	33 (24.75)
AWD 4510	4500-5600 (2648-3296)	130-160 (174-214)	33 (24.75)
AWD 100 A	89-110 (52-65)	3-4 (4-5)	30 (22.5)
AWD 140 A	142-177 (83-104)	5-6 (7-8)	30 (22.5)
AWD 170 A	176-219 (103-129)	6-8 (7-11)	30 (22.5)
AWD 240 A	229-285 (135-168)	8-11 (11-15)	30 (22.5)
AWD 350 A	328-408 (193-240)	11-15 (15-20)	30 (22.5)
AWD 375 A	354-440 (208-259)	13-19 (17-25)	30 (22.5)
AWD 600 A	555-690 (327-406)	23-30 (31-40)	30 (22.5)
AWD 660 A	656-816 (386-480)	26-37 (35-50)	30 (22.5)

Contact your local Atlas Copco representative for customized and VSD variants

## AWS Series

Single stage liquid ring vacuum pumps



Model @50 - 60Hz	Flow m³/h (cfm)	Nominal power kW (hp)	Max. vacuum mbar.a (torr)
AWS 180	163-195 (96-115)	5.5-7.5 (7-10)	33 (24.75)
AWS 280	228-278 (134-164)	7.5-11 (10-15)	33 (24.75)
AWS 360	321-375 (189-221)	11-15 (15-20)	33 (24.75)
AWS 450	434-504 (255-297)	15-22 (20-29)	33 (24.75)
AWS 600	572-645 (337-380)	18.5-30 (25-40)	33 (24.75)
AWS 800	718-825 (423-486)	22-30 (29-40)	33 (24.75)
AWS 1100	1009-1193 (594-702)	37-45 (50-60)	33 (24.75)
AWS 1300	1213-1402 (714-825)	37-55 (50-74)	33 (24.75)
AWS 1600	1571-1862 (925-1096)	45-75 (101-101)	33 (24.75)
AWS 2500	2192-2706 (1290-1593)	75-90 (101-121)	33 (24.75)
AWS 3300	3056-3473 (1799-2044)	75-110 (101-147)	33 (24.75)
AWS 5500	5025-5519 (2958-3248)	160-185 (214-248)	33 (24.75)
AWS 6500	4180-6510 (2462-3834)	90-185 (121-248)	33 (24.75)
AWS 8000	4860-8100 (2862-4771)	132-250 (177-335)	33 (24.75)
AWS 10000	6000-9450 (3534-5566)	132-250 (177-335)	33 (24.75)
AWS 12000	6780-11652 (3993-6863)	132-355 (177-476)	33 (24.75)
AWS 12500	7700-11820 (4535-6961)	160-280 (214-375)	33 (24.75)
AWS 16000	9720-16380 (5725-9647)	220-450 (295-603)	33 (24.75)
AWS 19000	11500-18250 (6773-10748)	220-500 (295-670)	33 (24.75)
AWS 23000	14460-22800 (8516-13428)	315-630 (422-845)	33 (24.75)
AWS 26000	17500-26000 (10307-15313)	400-710 (536-952)	33 (24.75)

Flow values mentioned are based on saturated air

## Vacuum controllers

- **HEX@GRID:** Next-generation Industry 4.0 vacuum controller with complete connectivity and enhanced control



- **ELEC CAB:** Electrical panel with VFD

## Vacuum accessories

- Inlet dust removal filter
- Inlet liquid removal filter
- Oil-mist exhaust filter
- Three stage heavyduty filter
- Vacuum receiver tank
- Vacuum auto drain



Atlas Copco AB

[www.atlascopco.com/vacuum](http://www.atlascopco.com/vacuum)