



ADV200-HC

AC Variable Speed Drive



Hoist & Crane

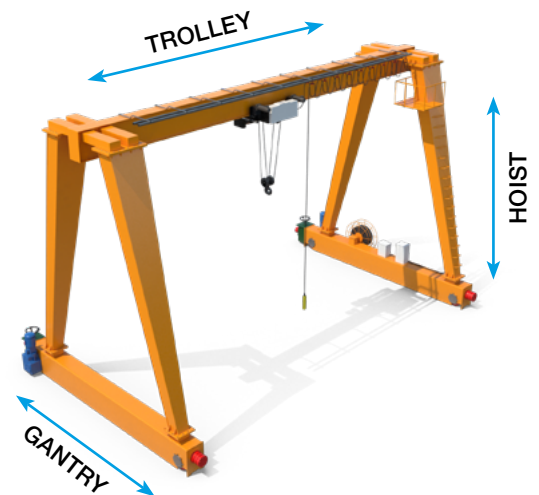


ADV200-HC is a solution tailored for hoist and cranes systems. It includes the functions to control all the axis in the application:

- Hoist
- Gantry
- Trolley

The **Control Functions** are designed to:

- improve the crane performance
- prevent possible damages to the load during hoisting or travelling
- ensure smooth and fast movement
- reduce the wear
- reduce the operator effort and improve his working condition



Functions



Brake control



Overtravel



Anti impact



Overload



Joystick Management



Multispeed



Multiramp



Zero crossing



Speed up



Anti Sway



Master / Follower



Electrical shaft



Power range

Model	Power range (kW)																														
	0.75	1.5	2.2	3	4	5.5	7.5	11	15	18.5	22	30	37	45	55	75	90	110	132	160	200	250	315	355	400	500	630	710	900	1,000	1,350
ADV200-HC	Size 1				Size 2			Size 3			Size 4			Size 5			Size 6		Size 7				Parallel config size 7 ^[1]								
Pre-configured ADV200-HC drives																Standard ADV200 drives The HC application can be downloaded by the user															

NOTES

[1] Inverters of over 400 kW comprise one MASTER unit and one or more SLAVE units.

The **ADV200-HC** version (up to 55kW) includes, as delivered from the factory, the ADV200 FW + the Hoist & Crane application. The drives are delivered with integrated braking unit, EMC filter and DC Choke.

The **-SI** versions have the Safe Torque Off (STO) function included.

The application **FW ADV200-HC** is available as a free package for the whole ADV200 drives power range.

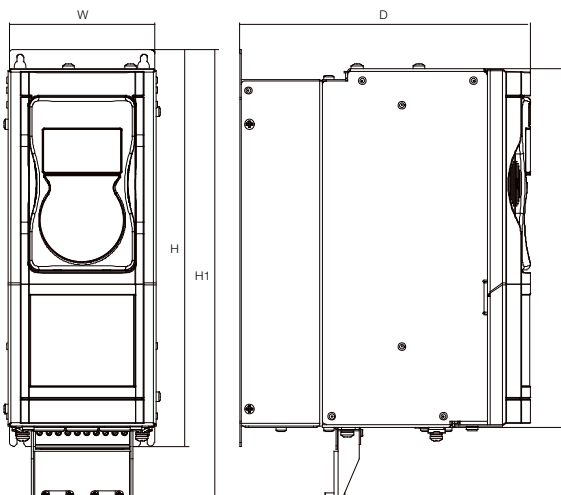
In this case, the application must to be downloaded into the drive by the user.

General specifications

Power supply	3 x 380 ... 480 Vac, 50/60 Hz (-4 models) 3 x 500 ... 690 Vac, 50/60 Hz (-6 models) 450 ... 750 Vdc (-DC-4 models) 600 ... 1,120 Vdc (-DC -6 models)
Power ratings	0.75kW...1,65kW (HD)
Maximum output frequency	500 Hz (depending on drive size)
Braking unit	Integrated (up to 55 kW) Optional external (≥75 kW)
Overload	Heavy duty: 150% x In (1' every 5'), 180% x In (for 0,5") Light duty: 110% x In (1' every 5')
Control mode	Open-loop and closed-loop vector control; open loop V/f
Dedicated functions	Brake management, Joystick input, Multispeed & Multiramp, Overtravel, Hoist speed up, Low speed zone, Anti-sway, Anti-impact, Electrical Line Shaft, Helper
Optional cards	Integration of up to 3 options on-board "Safety STO" card compliant with SIL3 machine safety directive (for model ADV200-...+SI)
Energy-efficiency option	By using the Regenerative Active Front End power supply AFE200
Multi-language programming SW	WEG-eXpress (5 languages)
PLC	PLC with advanced IEC 61131-3 programming environment
Rated protection	IP20-rated protection (IP00 size 7 and parallel)
Fieldbus management	Modbus RTU. Optional: Ethernet/IP, PROFINET, Devicenet, Profibus DP, CANopen, Modbus RTU to Modbus TCP gateway
Marks	CE, UL, cUL



Dimensions



Dimensions - mm			
Mechanical size	W	H (H1)	D
1	118	322 (348)	235
2	150	392 (440)	250
3	180	517 (557)	250
4	268	616 (682)	270
5	311	767 (853)	325
6	422	878	360
7	417	1407	485



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