

2 Installation and Commissioning, IRC5

2.6.4. Configuration of Drive System 09, IRC5

2.6.4. Configuration of Drive System 09, IRC5

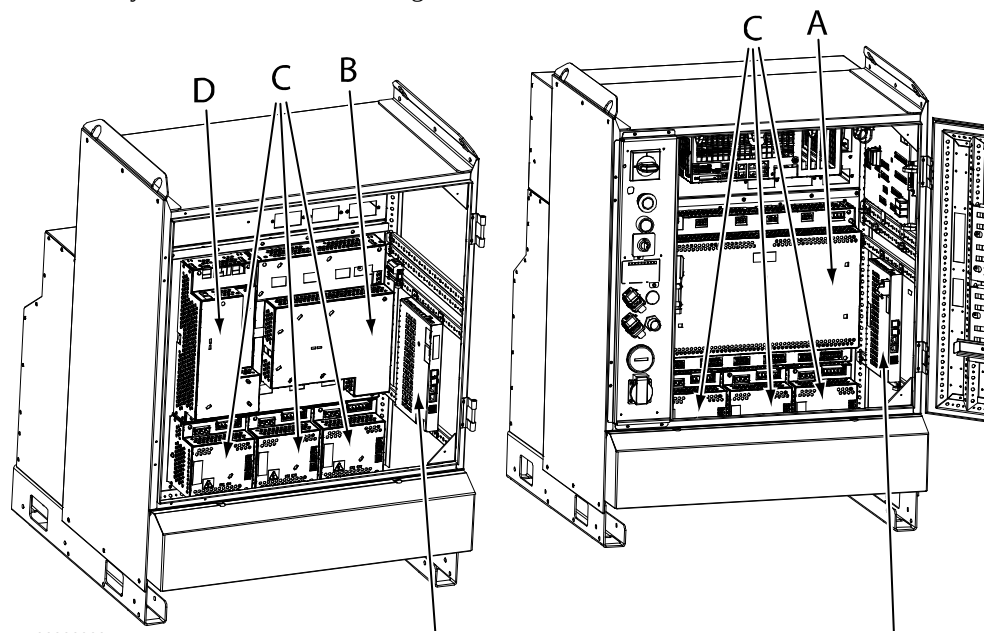
General

The IRC5 Controller contains one Main Drive Unit and up to three Additional Drive Units, and in some cases an Additional Rectifier Unit. The allowed combinations of these, depending on the robot type, is specified below.

The robot system may also be equipped with up to three additional drive modules, which are described in section [Installation of additional Drive Module on page 106](#).

Location

The drive system is located in the Single Cabinet Controller as shown below.



A	Main Drive Unit MDU-790A (for large robots)
B	Main Drive Unit MDU-430A (for small robots)
C	Additional Drive Units (for additional axes)
D	Additional Rectifier Unit (only used for additional axes in combination with small robots)

DC bus cables

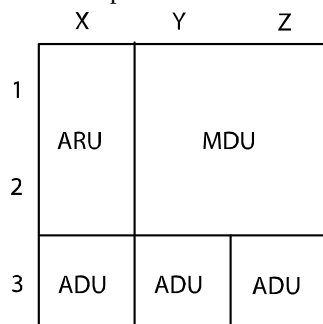
Between the units are fitted DC bus cables, which are specified below:

Description	Art. no.	Note
DC bus cable	3HAC032612-001	Between Main Drive Unit MDU-790A and Additional Drive Units.
DC bus cable	3HAC036612-001	Between Additional Rectifier Unit and first Additional Drive Unit.
DC bus cable	3HAC036612-002	Between Additional Rectifier Unit and second Additional Drive Unit.
DC bus cable	3HAC036612-003	Between Additional Rectifier Unit and third Additional Drive Unit.

Continues on next page

IRB 120, 140, 1410, 260, 340, 360, 1600

The following illustration shows the drive units. The table specifies which units may be fitted in which positions.

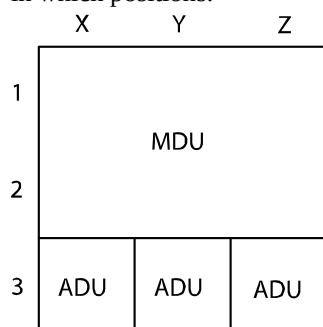


en0800000293

Pos.	Identification	Description	Art. no.	Note
Y1, Y2, Z1, Z2	DSQC 406	Main Drive Unit MDU-430A	3HAC035301-001	
X1, X2	DSQC 417	Additional Rectifier Unit ARU-430A	3HAC035381-001	Required if any Additional Drive Unit is used.
X3	DSQC 664	Additional Drive Unit ADU-790A	3HAC030923-001	For first additional axis
Y3	DSQC 664	Additional Drive Unit ADU-790A	3HAC030923-001	For second additional axis
Z3	DSQC 664	Additional Drive Unit ADU-790A	3HAC030923-001	For third additional axis

IRB 2400, 2600, 4400, 4600, 6400R, 6600, 6620, 6640, 6650, 6660, 660, 7600

The following illustration shows the drive units. The table specifies which units may be fitted in which positions.



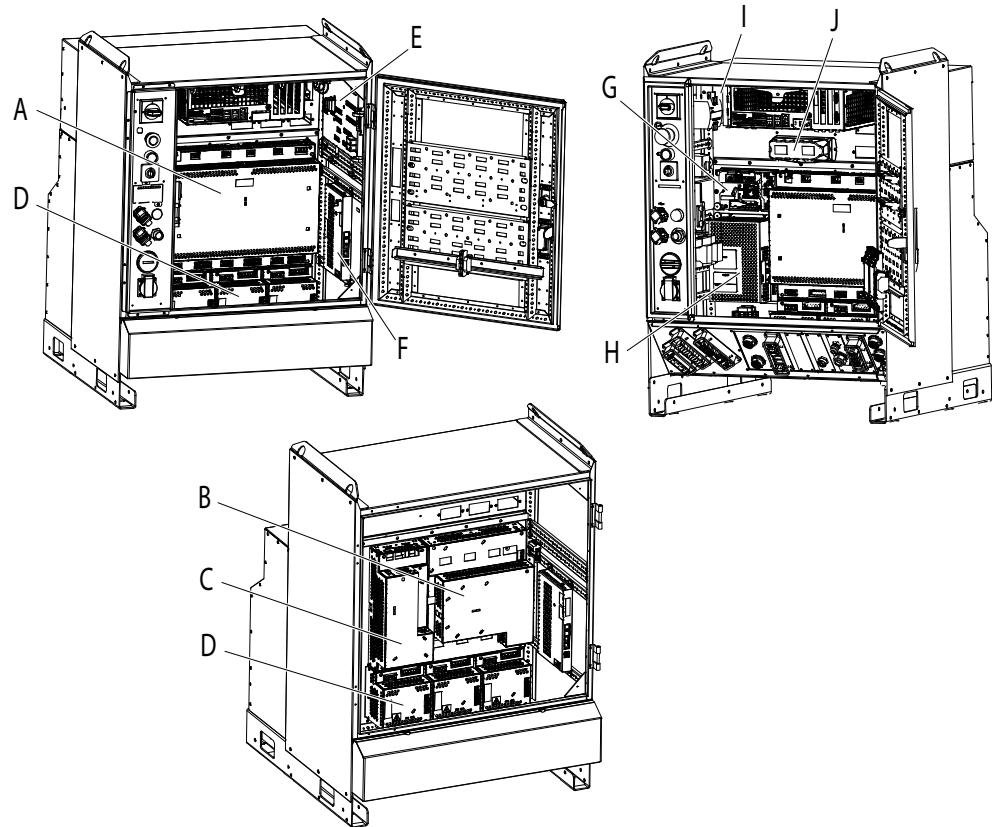
en0800000292

Pos.	Identification	Description	Art. no.	Note
X1, X2, Y1, Y2, Z1, Z2	DSQC 663	Main Drive Unit MDU-790A	3HAC029818-001	

Continues on next page

Controller system parts (Drive System 09)

The illustration below shows the placement of the controller system parts in the recommended spare part list.



xx0900000046

	Spare part no.	Description	Note
A	3HAC029818-001	Main Drive Unit, MDU-790A	DSQC 663
B	3HAC035301-001	Main Drive Unit, MDU-430A	DSQC 406
C	3HAC035381-001	Additional Rectifier Unit, ARU-430A	DSQC 417
D	3HAC030923-001	Additional Drive Unit, ADU-790A	DSQC 664
E	3HAC024488-001	Panel board unit	DSQC 643
F	3HAC029159-1	Axis computer	DSQC 668
G	3HAC026254-001	Power distribution board	DSQC 662
H	3HAC026253-001	System power supply	DSQC 661
I	3HAC14178-1	Customer I/O power supply	DSQC 609
J	3HAC026585-001	Backup energy bank with adapter plate	DSQC 655
J	3HAC025562-001	Backup energy bank	DSQC 655
	3HAC030439-001	Remote Service box	DSQC 680
	3HAC13389-2	Contactor interface board	DSQC 611

Continues on next page