

# After Sales Catalog

The Power Robot generation IRB 7600 and IRB 6600



**ABB**

# Welcome,

We are proud to present the After Sales offer for the Power Robot generation.

The purpose of this catalog is to support you with product information e.g. on what parts to have on stock, whether to lease or buy your parts, what options you can add after delivery, the extended warranty offer and what service tools will make your work easier.

This catalog covers IRB 7600-400/2.55, IRB 6600-175/2.55, IRB 6600-225/2.55 and IRB 6600-175/2.8.

The information in this catalog is subject to change without prior notice and we assume no responsibility for any errors that may appear in this document. Please use Parts OnLine, [www.abb.com/partsonline](http://www.abb.com/partsonline), for the latest article information.

Price information is presented separately, ask your sales representative for a copy.

We wish you a pleasant reading and are convinced you will find interesting products!

September 2002

**ABB Automation Technology Products AB**  
**Robotics After Sales & Support**

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# Parts Program

Parts, and especially for service, are important in maintaining your robot system at maximum performance. Our primary goal is to provide you with original parts in the fastest time possible.



## Spare Parts – Manipulator Parts

### IRB 7600-400/2.55 M2000

ARTICLE NO.	NAME	TYPE	REC. SPARE PART	CORRESPONDING EXCHANGE PART	
3HAC 11774-1	ADAPTER, MACHINED				
3HAC 13063-1	AXIS 3-4	400KG			
3HAC 14675-1	BALANCING DEVICE		Yes		
3HAC 13150-1	BATTERY PACK		Yes		
3HAC 13349-1	BRACKET FOR AX.2 GUIDE				
3HAC 12780-6	BRACKET FOR CABLE CLAMP				
3HAC 14369-1	BRACKET FOR CABLE CLAMP				
3HAC 12989-1	BRAKE REL. UNIT, INTERNAL				
3HAC 13055-1	BRAKE RELEASE CIRCUIT				
3HAC 13999-2	CABLE CONDUIT				
3HAC 15430-1	CABLE CONDUIT				
3HAC 15641-2	CABLE FOR FAN & POS. SW				
3HAC 13637-12	CABLE GUIDE				
3HAC 11440-1	CABLE HARNESS	MANIPULATOR AX.5-6	Yes		
3HAC 14940-1	CABLE HARNESS	MANIPULATOR AX.1-4	Yes		
3HAC 12591-2	CONNECTION PLATE, AX.3				
3HAC 13960-2	CONNECTION PLATE, AX.3, CUST				
3HAC 13960-3	CONNECTION PLATE, AX.3, PROC				
3HAC 11773-1	CONNECTOR HOOD, MACHINED				
3HAC 11423-1	COVER AX.4				
3HAC 12640-1	COVER AX.4 INCL. SEALING				
3HAC 10499-7	COVER SHEET				
3HAC 12967-5	COVER SMB				
3HAC 11007-4	CRIMP CONTACT MALE	1,0 MM2 AWG 18			





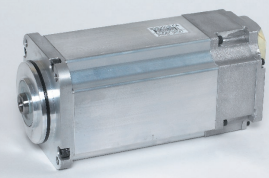
ARTICLE NO.	NAME	TYPE	REC. SPARE PART	CORRESPONDING EXCHANGE PART	
3HAC 13947-1	CUSTOMER HARNESS	AX.1-3 MATERIAL HANDLING			
3HAC 14208-1	CUSTOMER HARNESS	AX.1-3 SPOT WELD			
3HAC 12990-1	DAMPER AXIS 2				
3HAC 13564-1	DAMPER AXIS 4				
3HAC 14845-1	DISTANCE SCREW				
3HAC 15374-1	FAN				
3HAC 10122-13	FRICION WASHER				
3HAC 10122-27	FRICION WASHER				
3HAC 11755-1	FRICION WASHER		Yes		
3HAC 12877-1	GASKET				
3HAC 11423-3	GASKET COVER AX.4				
3HAC 10828-1	GEAR RV 500C-219,95	AX.1	Yes		
3HAC 12641-1	GEAR RV 700F	AX.2,3	Yes		
3HAC 11384-3	GEAR RV 125-97,909	AX.4,5	Yes		
3HAC 10122-22	GEAR RV 125F-178,41	AX.6	Yes		
3HAC 10989-3	HINGED FRAME, HOOD				
3HAC 11963-3	HOOD FOUNDRY				
3HAC 14453-1	HOSE WITH FLANGE				
3HAC 9739-3	INSTRUCTION LABEL				
3HAC 14146-1	KIT FOR PROP.VALVE				
3HAC 14147-1	KIT FOR REGULATOR D.C				
3HAC 13945-1	MATERIAL HANDLING HARNESS UPPER ARM				
3HAC 12812-2	MECHANICAL STOP AX.1				
3HAC 11499-1	MOTOR FLANGE				
3HAB 3772-55	O-RING	221,84 x 3,53			
3HAB 3772-54	O-RING	444,3 x 5,7			
3HAC 12109-1	PLATE, CUSTOMER				

ARTICLE NO.	NAME	TYPE	REC. SPARE PART	CORRESPONDING EXCHANGE PART	
3HAC 12110-1	PLATE, PROC.				
3HAC 14453-2	PLUG				
3HAC 12587-1	POS SW 2 FUNCTION				
3HAC 15390-1	POS SW 2/3 C.HARN. + FAN				
3HAC 12498-1	POS SW 3 FUNCTION				
3HAC 13416-1	PROTECTION COVER				
3HAC 14263-1	PROTECTION COVER				
3HAC 12324-1	PROTECTION SHEET				
3HAC 12324-2	PROTECTION SHEET				
3HAC 14207-1	ROT AC MOTOR INCL.PINION	AX.1	Yes	6369 901-580	
3HAC 14209-1	ROT AC MOTOR INCL.PINION	AX.2-3	Yes	6369 901-581	
3HAC 14210-1	ROT AC MOTOR INCL.PINION	AX.4-5	Yes	6369 901-582	
3HAC 14211-1	ROT AC MOTOR INCL.PINION	AX.6	Yes	6369 901-583	
3HAC 12454-2	SCREEN PLATE				
3HAC 11461-1	SEALING				
3HAC 11054-1	SEALING AX. 2/3				
3HAC 16014-1	SERIAL MEASUREMENT UNIT	DSQC 562		6369 901-577	
3HAC 12126-1	SET OF SHIMS				
3HAC 9258-1	INDICATOR LAMP				
3HAC 3774-7	SPACER RING				
3HAC 13944-1	SPOT PACK HARNESS UPPER ARM				
3HAC 15080-1	SUSPENSION BRACKET				
3HAC 11586-1	SWITCH ATTACH AX.2				
3HAC 11471-1	SYNC PLATE AX.6				
3HAC 9953-1	SYNC PLATE WITH NONIE AX.1-5				
3HAC 14658-1	SYNC PLATE WITH NONIE AX.3				
3HAC 12060-1	THRUST WASHER				
3HAC 13193-1	TURNING DISC, DIA. 250		Yes		
3HAC 15895-2	UPGRADE KIT INTERNAL CABLAG				
3HAC 9191-1	WARNING LABEL				
3HAC 9508-1	WARNING LABEL				
3HAC 9526-1	WARNING LABEL				
3HAC 8534-2	WELD CONNECTOR BRACKET				
3HAA 2166-23	VK-COVER VK 120x12				
3HAC 16628-1	WRIST 400KG, 500KG FOUNDRY		Yes	6369 901-571	

## Spare Parts – Manipulator Parts

IRB 6600-175/2.55, IRB 6600-225/2.55 and IRB 6600-175/2.8 M2000

ARTICLE NO.	NAME	TYPE	REC. SPARE PART	CORRESPONDING EXCHANGE PART	
3HAC 11774-1	ADAPTER, MACHINED				
3HAC 15988-1	AXIS 6 COMPLETE	225KG			
3HAC 14678-1	BALANCING DEVICE				
3HAC 13150-1	BATTERY PACK		Yes		
3HAC 12780-5	BRACKET FOR CABLE CLAMP				
3HAC 14369-1	BRACKET FOR CABLE CLAMP				
3HAC 14624-1	BRACKET FOR CABLE CLAMP				
3HAC 13151-1	CABLE BATTERY/SMB				
3HAC 15430-1	CABLE CONDUIT				
3HAC 12844-1	CABLE COVER				
3HAC 8081-3	CABLE COVER				
3HAC 15697-2	CABLE FOR FAN & POS. SW				
3HAC 14880-1	CABLE FIXING BRACKET				
3HAC 13637-6	CABLE GUIDE				
3HAC 11771-1	CABLE GUIDE, END PART				
3HAC 14940-1	CABLE HARNESS	MANIPULATOR AX.1-4	Yes		
3HAC 14300-1	CABLE PROTECTOR				
3HAC 13960-2	CONNECTION PLATE, AX.3, CUST				
3HAC 13960-3	CONNECTION PLATE, AX.3, PROC				
3HAC 3261-1	COVER				
3HAC 14791-3	COVER BATTERY BOX				
3HAC 12967-5	COVER SMB				
3HAC 8081-8	COVER WITH GASKET, 225KG				
3HAC 12991-1	DAMPER AX.2				
3HAC 12320-1	DAMPER AX.3				
3HAB 4337-2	DAMPER AX.5				
3HAC 13564-1	DAMPER AXIS 4				
3HAC 15374-1	FAN				
3HAC 12877-1	GASKET				
3HAC 10828-8	GEAR RV 320C-224,26	AX.1	Yes		
3HAC 10828-12	GEAR RV 410F-270.176	AX.2,3	Yes		
3HAC 10828-10	GEAR RV 40E-81	AX.6, 175/2,55	Yes		
3HAC 10828-13	GEAR RV 70F-125,8	AX.6, 175/2,8-225/2,55	Yes		
3HAC 14453-1	HOSE WITH FLANGE				

ARTICLE NO.	NAME	TYPE	REC. SPARE PART	CORRESPONDING EXCHANGE PART	
3HAC 14139-1	MANIPULATOR HARNESS AX.5		Yes		
3HAC 14140-1	MANIPULATOR HARNESS AX.5/6		Yes		
3HAC 16387-1	MATERIAL SET, SPOT WELD, AX1				
3HAC 12812-2	MECHANICAL STOP AX.1				
3HAB 3772-61	O-RING	13,1 x 1,6			
3HAB 3772-64	O-RING	150,0 x 2,0			
3HAB 3772-57	O-RING	164,69 x 3,53			
3HAB 3772-55	O-RING	221,84 x 3,53			
3HAB 3772-68	O-RING	276 x 3,53			
3HAB 3772-54	O-RING	444,3 x 5,7			
3HAC 12109-1	PLATE, CUSTOMER				
3HAC 12110-1	PLATE, PROC.				
3HAC 14453-2	PLUG				
3HAC 12587-1	POS SW 2 FUNCTION				
3HAC 15390-1	POS SW 2/3 C.HARN. + FAN				
3HAC 12498-1	POS SW 3 FUNCTION				
3HAC 13416-1	PROTECTION COVER				
3HAC 14263-1	PROTECTION COVER				
3HAC 12324-1	PROTECTION SHEET				
3HAC 12324-2	PROTECTION SHEET				
3HAC 14117-1	RAIL COMPLETE AX 1				
3HAC 15879-1	ROT AC MOTOR INCL.PINION	AX.1	Yes	6369901-585	
3HAC 15882-1	ROT AC MOTOR INCL.PINION	AX.2,3, 175/2,55		6369901-586	
3HAC 15885-1	ROT AC MOTOR INCL.PINION	AX.2,3, 175/2,8-225/2,55	Yes	6369901-587	
3HAC 15887-1	ROT AC MOTOR INCL.PINION	AX.4, 175/2,55	Yes	6369901-588	
3HAC 15889-1	ROT AC MOTOR INCL.PINION	AX.4, 175/2,8-225/2,55	Yes	6369901-589	
3HAC 15990-1	ROT AC MOTOR INCL.PINION	AX.6, 175/2,55	Yes	6369901-594	
3HAC 15991-1	ROT AC MOTOR INCL.PINION	AX.6, 175/2,8-225/2,55	Yes	6369 901-595	
3HAC 14673-10	ROT AC MOTOR M10	AX.5, 175/2,8-225/2,55	Yes	6369901-593	





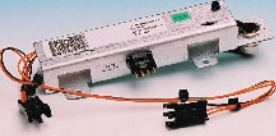
ARTICLE NO.	NAME	TYPE	REC. SPARE PART	CORRESPONDING EXCHANGE PART	
3HAC 14673-7	ROT AC MOTOR M7	AX.5, 175/2,55	Yes	6369901-592	
3HAC 12443-2	SEALING AX. 2/3				
3HAC 16014-1	SERIAL MEASUREMENT UNIT	DSQC 562			
3HAC 12126-1	SET OF SHIMS				
3HAC 7941-19	SET OF SHIMS, BEVEL GEAR				
3HAC 7941-28	SET OF SHIMS, MOTOR				
3HAC 9258-1	INDICATOR LAMP				
3HAC 3774-7	SPACER RING				
3HAC 12625-1	STRAP, VELCRO				
3HAC 15079-1	SUSPENSION BRACKET				
3HAC 11586-1	SWITCH ATTACH AX.2				
3HAC 9953-1	SYNC PLATE WITH NONIE AX.1-5				
3HAC 12719-1	SYNC PLATE WITH NONIE AX.3				
3HAC 9953-3	SYNC PLATE WITH NONIE AX.6				
3HAC 12060-1	THRUST WASHER				
3HAC 13752-1	TURNING DISC, DIA. 200	TO WRIST 3HAC 16626-1 (175/2,8-225/ 2,55)	Yes		
3HAC 9744-5	TURNING DISC, DIA. 200	TO WRIST 3HAC 16627-1 (175/2,55)	Yes		
3HAC 9191-1	WARNING LABEL				
3HAC 9508-1	WARNING LABEL				
3HAC 9526-1	WARNING LABEL				
3HAC 11732-2	WASHER AX.1				
3HAC 12703-1	WASHER AX.3				
3HAC 8534-2	WELD CONNECTOR BRACKET				
3HAA 2166-23	VK-COVER VK 120x12				
3HAC 16627-1	WRIST 175/2,55 FOUNDRY		Yes	6396 901-597	
3HAC 16626-1	WRIST 175/2,8-225/2,55 FOUNDRY		Yes	6369 901-596	

## Spare parts – Controller Parts

### S4Cplus M2000

ARTICLE NO.	NAME	TYPE	REC. SPARE PART	CORRESPONDING EXCHANGE PART	
3HAC 8253-1	3-PHASE MAIN SWITCH 40A	OPTION 141, 144			
3HAC 1443-1	3-PHASE MAIN SWITCH 80A	OPTION 143			
3HAB 7818-1	ACTUATOR				
3HAB 7230-1	AD COMBI I/O MODULE	DSQC 327*	Yes	6369901-455	
3HAC 5295-1	AIR FILTER 653x540x20		Yes		
3HAC 7542-1	AIR FILTER MAGAZINE				
3HAC 8059-1	AIR FILTER MAGAZINE COMPLETE				
3HNE 00554-1	ANALOG I/O UNIT	DSQC 355*	Yes	6369901-476	
3HAB 5878-1	AUXILIARY CONTACT CA5-01	CA7-01	Yes		
3HAB 5877-1	AUXILIARY CONTACT CA5-10	CA7-10	Yes		
3HAC 3619-1	AXIS COMPUTER	DSQC 503*	Yes	6369901-506	
3HAC 6546-1	AXIS CONN UNIT	DSQC 513*			
3HAC 3617-1	BACK PLANE	DSQC 501*	Yes		
3HAC 5689-1	BASE CONN UNIT	DSQC 504*	Yes		
3HAC 5687-1	BASE PANEL UNIT	DSQC 509*	Yes	6369901-526	
3HAC 5393-2	BATTERY UNIT	DSQC 508*	Yes	6369901-484	
3HAC 11821-1	BLEEDER INTERNAL CONN.				



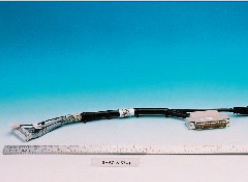




ARTICLE NO.	NAME	TYPE	REC. SPARE PART	CORRESPONDING EXCHANGE PART	
3HAC 7520-1	BRACKET	DSQC 507*			
3HAB 7286-5	BRACKET				
3HAC 0977-1	BRAKE RESISTOR	10 OHM 50 W	Yes		
3HAC 4560-5	BRAKE RESISTOR 770HM		Yes		
3HAB 8335-10	BRIDGE CONNECTOR				
3HAC 5518-1	BUS CABLE DB15				
3HAC 5497-1	BUS CABLE DB25				
3HAC 5498-1	BUS CABLE DB44				
3HAC 3671-1	CABINET EXTENSION	820MM			
3HAC 6428-5	CABLE JIB CONTROL PANEL	2 POS			
3HAC 6428-1	CABLE JIB CONTROL PANEL	3 POS			
3HAC 3132-1	CABLE JIB CONTROL PANEL	OPTION 191			
3HAC 2355-1	CABLE JIB CONTROL PANEL	OPTION 193			
3HAC 5564-1	CABLE JIB DRIVE SYSTEM				
3HAC 6367-1	CABLE JIB TEACH PENDANT				
3HAC 6377-1	CABLE JIB. POWER SUP.B.P				
3HAC 6168-1	CABLE JIB.EXT.COMP.FANS				
3HAC 2349-1	CAM SWITCH 2-POS		Yes		

ARTICLE NO.	NAME	TYPE	REC. SPARE PART	CORRESPONDING EXCHANGE PART	
3HAC 3116-1	CAM SWITCH 3-POS		Yes		
3HAC 7404-1	CAN BUS CABLE				
3HAC 7501-1	CAN BUS CABLE I/O 1-2				
3HAC 7416-1	CAN BUS CABLE I/O 1-4				
3HAC 5475-1	CARD BRACKET PCI				
3HAC 5480-1	CARD GUIDE				
3HAC 6552-1	CASTOR WHEELS				
YB 560 103-CF	CIRCUIT BOARD	DSQC 237*			
3HNE 00065-1	CIRCUIT BOARD ENC-01	DSQC 354*	Yes		
3HAC 2550-1	CIRCUIT BREAKER	600V 20A			
3HAC 3577-1	CIRCUIT BREAKER	600V 20A			
3HAC 10858-1	CIRCUIT BREAKER 16A	OPTION 147 IF 162, 163			
3HAC 10858-2	CIRCUIT BREAKER 25A	OPTION 147 IF 161			
3HAB 2007-1	COMPONENT PLUG				
3HAC 9667-1	COMPUTER OUTLET				
3HAC 10939-2	COMPUTER SYSTEM 128MB	WITH HEAT EXCHANGER		6369901-538	
3HAC 10939-1	COMPUTER SYSTEM 64MB	WITH HEAT EXCHANGER		6369901-537	
3HNE 00188-1	CONNECTION CABLE 10M				
3HAC 7290-1	CONNECTOR COVER	OPTION 410			
SK 616 001-A	CONTACT BLOCK	K CB-10	Yes		
3HAB 5171-10	CONTACT BLOCK		Yes		

ARTICLE NO.	NAME	TYPE	REC. SPARE PART	CORRESPONDING EXCHANGE PART	
3HAB 2425-6	CONTACTOR 24VDC		Yes		
3HAC 11818-2	CONTROL CABLE POWER 15M				
3HAC 11818-4	CONTROL CABLE POWER 30M				
3HAC 11818-1	CONTROL CABLE POWER 7M				
3HAC 7998-2	CONTROL CABLE SIGNAL 15M				
3HAC 7998-4	CONTROL CABLE SIGNAL 30M				
3HAC 7998-1	CONTROL CABLE SIGNAL 7M				
3HAC 5294-1	CONTROL CUBICLE, BASE	OPTION 111			
3HAC 6096-1	COOLING UNIT				
3HAC 7273-1	COVER	OPTION 322			
3HAC 1526-1	COVER CONTROL CUBICLE	CABINET EXTENSION 250MM, TOTAL CABINET HIGHT=1200mm, OPTION 123			
3HAC 0967-1	COVER CONTROL CUBICLE	TOTAL CABINET HIGHT=950mm, OPTION 121			
3HAC 4910-1	COVER LEFT				
3HAC 4910-2	COVER LEFT				
3HAC 6174-1	COVER RIGHT				
3HAC 8096-1	COVER RIGHT				
3HAB 7229-1	DIGITAL I/O MODULE	DSQC 328*	Yes	6369901-378	
3HAB 9669-1	DIGITAL RELAY I/O	DSQC 332*	Yes	6369901-403	
3HAB 7231-1	DIGITAL120 VAC I/O MODULE	DSQC 320*	Yes	6369901-528	
2153 0885-3	DISTANCE BLOCK				
3HAC 4632-1	DOOR CONTROL CUBICLE				
3HAC 2412-1	DOOR INTERLOCK NA-SWITCH	OPTION 142			
3HAC 2406-1	DOOR INTERLOCK NA-SWITCH				
3HAC 2635-1	DOOR INTERLOCK NA-SWITCH				
3HAB 8820-1	DRIVE SYSTEM ENCLOSURE				
3HAC 11817-1	DRIVE SYSTEM INT. CABLE				
3HAB 8101-18	DRIVE UNIT	DSQC 546A*	Yes	6369901-535	



ARTICLE NO.	NAME	TYPE	REC. SPARE PART	CORRESPONDING EXCHANGE PART	
3HAC 6647-1	DUTY TIME COUNTER 24VDC				
3HAB 2016-1	EARTH FAULT BREAKER				
3HAB 5171-2	EMERGENCY PUSH BUTTON		Yes		
3HAB 7983-1	END CLAMP				
3HAB 6304-1	END SLEEVE				
3HAC 10847-1	ETHERNET ON FRONT,HARNESS				
3HAC 7419-1	EXPANSION CABLE JIB				
3HAC 8074-1	EXT. CABLE JIB FANS				
3HNE 00133-1	EXTENSION CABLE10M				
3HAC 7043-1	EXTERNAL CUSTOMER CONNEC-TOR HARNESS				
3HAC 6655-1	FAN UNIT				
3HAC 12924-1	FAN UNIT, 4 FANS				
3HAC 12924-2	FAN WITH RECEPTACLE 24V		Yes		
3HAC 6658-1	FAN WITH RECEPTACLE 24V		Yes		
3HAC 13173-2	FIELD BUS CAN 15M				
3HAC 13173-4	FIELD BUS CAN 30M				
3HAC 13173-1	FIELD BUS CAN 7M				
3HAC 13174-2	FIELD BUS PROFIBUS 15M				
3HAC 13174-4	FIELD BUS PROFIBUS 30M				
3HAC 13174-1	FIELD BUS PROFIBUS 7M				
5911 069-10	FILAMENT LAMP	BA9S*36V 3.6W	Yes		
3HAC 7519-3	FLASH DISK 128MB	DSQC 518B*	Yes	6369901-525	
3HAC 7519-2	FLASH DISK 64MB	DSQC 518A*	Yes	6369901-524	

ARTICLE NO.	NAME	TYPE	REC. SPARE PART	CORRESPONDING EXCHANGE PART	
3HAB 2480-1	FLEXDRIVER		Yes		
3HAC 8083-1	FLOPPY COVER	OPTION 320			
3HAC 7239-1	FLOPPY COVER				
3HAC 7331-1	FLOPPY HOLDER				
3HAC 6157-1	FLOPPY SIGN/SUPPLY CABLE				
3HAC 4802-1	FUSE 15A				
3HAC 0828-1	FUSE UNIT				
3HAC 4803-2	FUSEHOLDER WITH FUSES	OPTION 148 IF 162, 163			
3HAB 5690-2	GASKET				
3HAB 9310-2	GASKET				
3HAC 6520-1	GLIDE PLUG OPERATING FOOT				
2158 0132-176	GRATING				
2188 0286-3	GUARD/BRACKET				
3HAC 6378-1	HARDDISC HARNESS				
3HAC 6989-1	HARNESS ANALOG I/O				
3HAC 7098-1	HARNESS BAS EXTERNAL AXIS CABINET.				
3HAC 6993-1	HARNESS COMBI I/O				
3HAC 6988-1	HARNESS DIGITAL I/O				
3HAC 5566-1	HARNESS DRIVE SYSTEM A1, A2				
3HAC 6640-1	HARNESS DRIVE SYSTEM A3				
3HAC 6843-1	HARNESS EXT.CONTR.PANEL				
3HAC 3335-1	HARNESS EXT.PANEL 15M	OPTION 185			
3HAC 3338-1	HARNESS EXT.PANEL 22M	OPTION 186			
3HAC 3339-1	HARNESS EXT.PANEL 30M	OPTION 187			
3HAC 13202-1	HARNESS POSITION SWITCH 1	HARNESS IN CABINET			
3HAC 8500-6	HARNESS POWER SUPPLY				
3HAC 7055-1	HDD/FLASH ADAPTER	DSQC 517*			
3HAC 9710-1	HEAT EXCHANGER UNIT				



ARTICLE NO.	NAME	TYPE	REC. SPARE PART	CORRESPONDING EXCHANGE PART	
3HNM 00032-1	HOLDER FOR PROG.UNIT				
3HAC 12158-1	I/O COMPUTER	DSQC 532*		6369901-573	
3HAC 7255-1	INNER FLOPPY BRACKET				
3HAC 11819-1	INTERBUS SLAVE WITH CU	DSQC 529*, OPTION 248		6369901-578	
3HAC 5579-1	INTERBUS-S ADAP.OPTO	DSQC 512*, OPTION 247			
3HNE 00006-1	INTERBUS-S SLAVE	DSQC 351*	Yes	6369901-433	
3HAC 8004-1	INTERNAL CABLE FANS 1-4				
SK 616 003-A	LAMP BLOCK	CBK*230V 2W	Yes		
3HAC 6384-1	LINK CUSTOMER CONNECTION				
3HAB 2482-4	LOCK INSERT	1000-U5 DIN 3MM			
3HAB 2482-1	LOCK INSERT	7MM SQUARE			
3HAB 2482-3	LOCK INSERT				
3HAB 7219-2	LOCKING CYLINDER 3524				
3HAC 3616-1	MAIN COMPUTER	DSQC 500*	Yes	6369901-504	
3HAC 6519-1	MAINTENANCE STOP				
3HAC 7811-1	MALE CONNECTOR				
3HAC 3504-1	MECH. SET FOR CIRCUIT BREAKER				
3HAC 0050-1	METALL FILM RESISTOR	120 OHM			
3HAB 2017-1	MINATURE CIRCUIT BREAKER	6A			


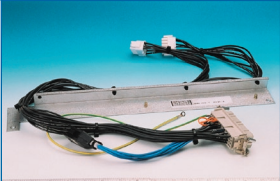
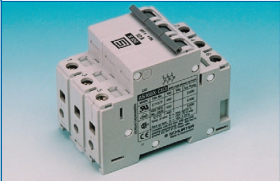



ARTICLE NO.	NAME	TYPE	REC. SPARE PART	CORRESPONDING EXCHANGE PART	
3HAC 3685-1	MOUNTING SET CAB. EXT				
3HAC 6541-1	MOUNTING SET, BASE				
3HAC 5364-1	MULTIPOLE CIRCUIT BREAKER	10A	Yes		
3HAB 9743-1	MULTIPOLE CONNECTOR	16P X1-X4			
3HAB 7252-1	MULTIPOLE CONNECTOR	I/O X10			
3HAB 7178-1	MULTIPOLE CONNECTOR	I/O X5			
3HAB 9715-1	MULTIPOLE CONNECTOR	X1-X4 10P			
3HAC 1836-1	MULTIPOLE CONNECTOR	X3 5P.			
3HAB 9664-1	MULTIPOLE CONNECTOR	X6 6P			
3HAC 0053-1	MULTIPOLE CONNECTOR	X8, X9 4P			
3HAB 7290-19	MULTIPOLE CONNECTOR	19P	Yes		
3HAB 7342-1	MULTIPOLE CONNECTOR SET	X7, X8			
3HAC 10614-1	NUT				
3HAB 9621-4	OUTLET 2-P W. EARTH TERM.				
3HAC 8212-1	OUTLET HOOD				
3HAC 6375-1	PC-HARNESS				
3HAC 7827-1	PLATE, EARTH FAULT BREAK				
3HAC 13175-2	POS SWITCH CABLE 1 15M				
3HAC 13175-4	POS SWITCH CABLE 1 30M				
3HAC 13175-1	POS SWITCH CABLE 1 7M				
3HAC 13176-2	POS SWITCH CABLE 2/3 15M				
3HAC 13176-4	POS SWITCH CABLE 2/3 30M				
3HAC 13176-1	POS SWITCH CABLE 2/3 7M				
3HAC 4296-1	POWER SUPPLY, COMPUTER	DSQC 505*	Yes		
3HAC 14265-1	POWER SUPPLY PROC.	DSQC 539*	Yes		
3HNE 00009-1	PROFIBUS DP SLAVE UNIT	DSQC 352*	Yes	6369901-468	
3HAC 5577-1	PROFIBUS-DP ADAP	DSQC 510*, OPTION 246			
3HNE 00313-1	PROG.UNIT WITH B.LIGHT		Yes	6369901-361	

ARTICLE NO.	NAME	TYPE	REC. SPARE PART	CORRESPONDING EXCHANGE PART	
SK 615 512-1	PROTECTIVE RING				
3HNE 01586-1	QUEUE TRACKER	DSQC 377*	Yes		
3HAB 8101-19	RECTIFIER	DSQC 545A*			
3HNE 00025-1	REMOTE I/O UNIT	DSQC 350*	Yes	6369901-431	
3HAC 3894-1	RESET UNIT				
3HAC 4816-2	RESISTOR UNIT	6x77 OHM			
3HAB 9310-1	SEALING STRIP	2450MM			
3HAC 8082-1	SERVICE COVER				
3HAC 10732-1	SERVICE SET HARNESS				
3HAC 6717-1	SHAFT				
3HAB 2006-1	TERMINAL BLOCK				
5672 817-17	TIME FUSE 2A				
3HAC 4637-1	TPU PLUG				
3HAC 4914-1	TRANSFORMER COVER				
3HAC 11668-1	TRANSFORMER UNIT	200-600V/475V 21,4KVA, OPTION 164			
3HAC 11668-4	TRANSFORMER UNIT	400-475/2*230-115 2,8KVA			
3HAC 0199-1	WASHER				
3HAB 7862-2	WINGKNOB WITH LOCKING CYLINDER 3524				
3HAB 7732-1	WIRE KNITTED GASKET	2600mm			

**External Axis Cabinet**

4944 026-4	BATTERY				
3HAC 0764-1	BLEEDER EXTERNAL CONNECTION				
3HAB 7424-1	CABLE JIB DRIVE SYSTEM				
3HAB 7429-1	C-JIB SWITCH/CIRC B Q1/F1				

ARTICLE NO.	NAME	TYPE	REC. SPARE PART	CORRESPONDING EXCHANGE PART	
3HAB 8101-11	DRIVE UNIT	DSQC 346E*	Yes	6369901-464	
3HAB 8101-8	DRIVE UNIT	DSQC 346G*		6369 901-358	
3HAB 7433-1	EXT. CABLE JIB FANS				
3HAB 9513-1	HARNESS DRIVE SYSTEM A1, A2				
3HAC 1821-1	HARNESS POW.EXT.AXES CAB.	OPTION 371, 372			
3HAC 2352-1	HARNESS POW.EXT.AXES CUB.	OPTION 374, 375			
3HAC 1919-1	INT. CABLE EXT.DRIVE UNIT				
3HAB 7172-1	MAIN LINE FILTER PLATE				
3HAC 7344-1	MAINS LINE FILTER	200-440V			
3HAB 9627-1	MAINS LINE FILTER 16A	400-500V,475-600V			
3HAC 11824-1	MAINS LINE FILTER 25A	OPTION 782, 693			
3HAC 0871-1	MULTIPOLE CIRCUIT BREAKER	10A			
3HAC 0870-2	MULTIPOLE CIRCUIT BREAKER	20A			
3HAB 8859-1	POWER SUPPLY BAR				
3HAB 8413-1	SERIAL MEASUREMENT BOARD			6369 901-338	
3HAC 7819-1	SIGNAL CABLE SMB				
5672 817-19	TIME FUSE	3,15A/250V	Yes		
5672 817-22	TIME FUSE	6.3A	Yes		
3HAC 9990-1	TIME RELAY UNIT				
3HAC 0751-1	TRANSFORMER UNIT	T2*200-440V			
3HAC 0752-1	TRANSFORMER UNIT	T2*400-500V			
3HAC 0753-1	TRANSFORMER UNIT	T2*475-600V			

## Exchange Parts

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As an alternative to new parts we offer reconditioned parts in an exchange parts system to a competitive price. The parts are factory repaired and tested before delivery. The exchange parts are on stock, ready to be delivered the same day you order.

Please see the section 'Spare Parts' to find the right exchange part.

## Recommended Spare Parts

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Based on our experience we offer you defined lists of recommended spare parts. These lists are available to make it easier for you to set up a tailor-made on-site spare part stock.

Please note that the lists are general and need to be adjusted to each customer's individual system.

Please see the section 'Spare Parts' to find the article number for the recommended spare part.

## Leasing of Spare Part Stock

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As an alternative to purchasing spare parts, we now offer the opportunity to lease your spare part stock. Leasing provides a solution to keep investments off the balance sheet.

We can offer long-term leasing contracts (up to 10 years) which enables the leasing contract to remain throughout the use of the robot system. It is a simple solution – you only pay the monthly rate and get the security of having the right part close at hand!

As an option you can choose to have your stock updated by us with the latest revision of the spare parts.

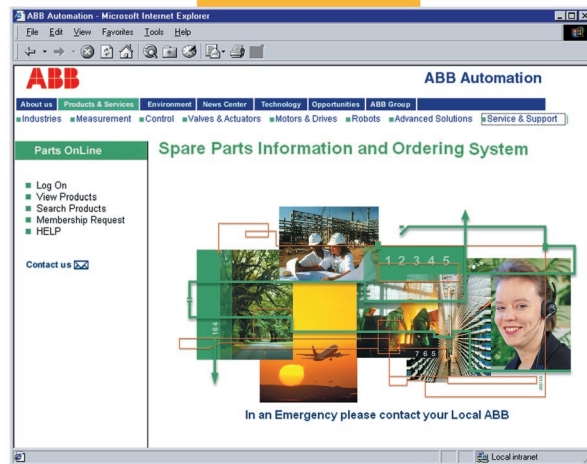
We will recover all unused, originally wrapped parts at the end of the leasing period.

## Parts OnLine

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The Parts Program also includes an internet ordering and information service, Parts OnLine. Parts OnLine is open 24 hours with on-line updated information at your service!

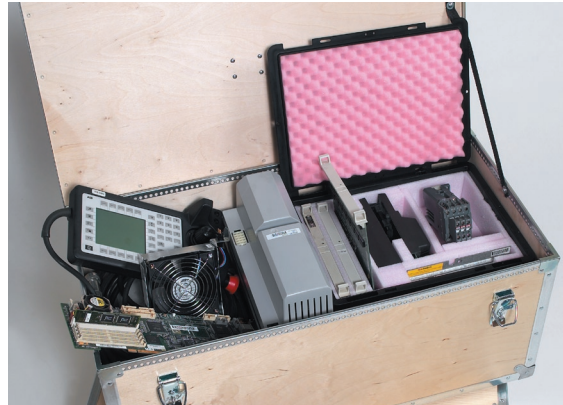
Please visit Parts OnLine at:  
[www.abb.com/partsonline](http://www.abb.com/partsonline)



## Service Boxes

We offer you special service boxes for your robot system. Based on our experience we designed these service boxes for S4C and S4Cplus controller. With these boxes you will cover 95% of all common controller failures during the whole robot life time.

The right part in your stock, stored in a safe box, is your insurance for effective help and a maximum performing robot system.



Article No, Service Boxes S4C and S4Cplus:  
3HAC 16511-1

### The Service Boxes contains:

NAME	TYPE	QUANTITY	BELONGS TO	
			S4C	S4CPLUS
AUTOMATIC FUSE DRIVE SYSTEM 20A		1	x	x
AUTOMATIC FUSE POWER SUPPLY 10A		1	x	x
AXIS COMPUTER	DSQC 503	1		x
BATTERY (RW MEMORY)		1	x	
BATTERY UNIT	DSQC 508	1		x
CIRCUIT BREAKER FLANGE DISCONNECT		1	x	x
COMBI I/O UNIT	DSQC 327	1	x	x
CONTACT BLOCK		1	x	x
DIGITAL I/O UNIT	DSQC 328	1	x	x
DRIVE UNIT ECB	DSQC 346E	1	x	x
DRIVE UNIT GT	DSQC 346G	1	x	x
DRIVE UNIT GU	DSQC 346U	1	x	x
EMERGENCY STOP BUTTON		1	x	x
ETHERNET BOARD	DSQC 336	1	x	
FAN		1	x	x
FLASH DISC 128MB	DSQC 518B	1		x
FLOPPY DISC CABLE		1	x	x
FLOPPY DISC DRIVE		1	x	x
FUSE 3.15A		10	x	x
FUSE 6.3A		10	x	x
FUSE 15A		1		x
GLOW LAMP		10	x	x
MAIN COMPUTER	DSQC 500	1		x
MAIN COMPUTER 25 MHZ	DSQC 361	1	x	
MEMORY BOARD 16MB	DSQC 324	1	x	
MOTOR ON CONTACTOR		1	x	x
RECTIFIER DC2	DSQC 345C	1	x	x
ROBOT COMPUTER	DSQC 373	1	x	
SWITCH		1	x	x
TEACH PENDANT WITH BACKLIGHT		1	x	x



# Warranty Program

## Standard warranty

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ABB grants one year of warranty on the delivered products specified in the order documents issued by ABB with the exception of equipment covered by separate warranty.

The warranty is 12 months of operation based on two-shift's operations or a maximum of 18 months after the date of dispatch from ABB, whichever occurs first. The warranty covers design and product defects in material and/or workmanship.

ABB's warranty conditions do not cover damage caused by the purchaser's equipment, careless or improper operation. Neither does the warranty cover consequential costs.

Parts and material that are subject to warranty will be replaced by exchange parts.

## Extended warranty

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When purchasing your robot system you have the opportunity to order extended warranty of 12 or maximum 24 months. This offer is also valid for the Power Robot generation, the IRB 7600 and IRB 6600 families.

The extended warranty will cover all costs associated with the repair or replacement of parts, less the first 300 EUR/USD which is at your own risk.





# Maintenance Program

## Service Tools

To enable you to install, maintain and repair your robots safely and efficiently we have used our experience in developing special service tools. A limited number of the service tools are kept on stock. Please ask for the actual delivery time for the service tools you wish to order.

We offer two levels of tool kits for the Power Robot generation, the Basic Tool Kit and the Extended Tool Kit.

## Basic Tool Kit

The Basic Tool Kit contains all service tools needed for repair or exchange of all motors and wrists for the Power Robot generation, see the list below. A special offer is available for the Basic Tool Kit.

Article No: 3HAC 15571-3

## Extended Tool Kit

The Extended Tool Kit contains all service tools for the Power Robots less the tools in the Basic Tool Kit. A special offer is available when ordering the Extended Tool Kit latest March 2003.

Article No: 3HAC 15571-2






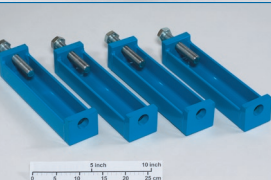
### The Basic Tool Kit contains:

ARTICLE NO.	NAME	QUANTITY
3HAC 12342-1	EXTENSION 300MM FOR BITS 1/2"	1
3HAC 12734-1	LIFTING TOOL, WRIST, IRB 7600	1
3HAC 13605-1	LIFTING TOOL, WRIST, IRB 6600	1
3HAC 14459-1	LIFTING TOOL, MOTOR AX. 1, 4, 5	1
3HAC 14972-1	REMOVAL TOOL, MOTOR, M10X (IRB 7600 MOTOR 6, IRB 6600 MOTOR 4, 5, 6)	2
3HAC 14973-1	REMOVAL TOOL, MOTOR, M12X (IRB 7600 MOTOR 1, 2, 3, 4, 5, IRB 6600 MOTOR 1, 2)	2
3HAC 14631-1	REMOVAL TOOL, MOTOR, M12X (IRB 7600 MOTOR 4, 5 IRB 6600 MOTOR 1, 2, 3)	2
3HAC 15520-1	GUIDE PINS M8, 100MM	2
3HAC 15520-2	GUIDE PINS M8, 150MM	2
3HAC 15521-1	GUIDE PINS M10, 100MM	2
3HAC 15521-2	GUIDE PINS M10, 150 MM	2
3HAC 15534-1	LIFTING TOOL, MOTOR AX. 2, 3, 4	1
3HAC 15571-1	HAND TOOL KIT	
	RING-OPEN-END SPANNER 8-19MM	1
	SOCKET HEAD CAP 5-17MM	1
	TORX SOCKET NO:20-60	1
	BOX SPANNER SET	1
	TORQUE WRENCH 10-100Nm	1
	TORQUE WRENCH 75-400Nm	1
	RATCHET HEAD FOR TORQUE WRENCH 1/2	2
	HEXAGON-HEADED SCREW M10X100	2
	SOCKET HEAD CAP no:14, LENGTH 140MM	1
	SOCKET HEAD CAP no:14, LENGTH 12MM	1



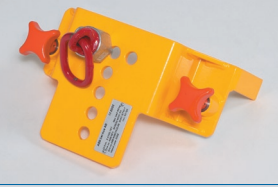


## Common tools for IRB 7600 and IRB 6600

ARTICLE NO.	NAME	
3HAC 12342-1	EXTENSION 300MM FOR BITS 1/2"	
3HAC 14445-1	GUIDE PINS SEALING	
3HAC 14446-1	GUIDE PINS SEALING	
3HAC 15521-1	GUIDE PINS,M10X100	
3HAC 15521-2	GUIDE PINS,M10X150	
3HAC 13120-5	GUIDE PINS,M16X300MM	
3HAC 11731-1	HYDRAULIC CYLINDER	
3HAC 13086-1	HYDRAULIC PUMP 80MPA	
3HAC 13086-2	HYDRAULIC PUMP 80MPA (GLYCERIN)	
3HAC 15560-1	LIFTING DEV,BASE	
3HAC 15607-1	LIFTING DEV,MANIPULATOR	
3HAC 16131-1	LIFTING EYE VLBG M12	
3HAC 14457-3	LIFTING EYE,M12	
3HAC 14457-4	LIFTING EYE,M16	
3HAC 15556-1	LIFTING TOOL (CHAIN)	
3HAC 14691-1	LIFTING TOOL,LOWER ARM	
3HAC 14459-1	LIFTING TOOL,MOTOR AXIS 1,4,5	
3HAC 15534-1	LIFTING TOOL,MOTOR AXIS 2,3,4	
3HAC 13452-1	PRESS TOOL,AXIS 2 SHAFT	

ARTICLE NO.	NAME	
3HAC 12476-1	PRESS TOOL,BALANCING DEVICE SHAFT *	
3HAC 15767-1	PRESS TOOL,BALANCING UNIT *	
3HAC 12475-1	PULLER TOOL,BALANCING DEVICE SHAFT *	
3HAC 14972-1	REMOVAL TOOL,MOTOR M10X (IRB 7600 MOTOR 6, IRB 6600 MOTOR 4, 5, 6)	
3HAC 14631-1	REMOVAL TOOL,MOTOR M12X (IRB 7600 MOTOR 4, 5 IRB 6600 MOTOR 1, 2, 3)	
3HAC 14973-1	REMOVAL TOOL,MOTOR M12X (IRB 7600 MOTOR 1, 2, 3, 4, 5 IRB 6600 MOTOR 1, 2)	
3HAC 15804-1	ROTATION TOOL	
3HAC 15535-1	SUPPORT,BASE	
3HAC 15571-1	HAND TOOL KIT	
	RING-OPEN-END SPANNER 8-19MM	
	SOCKET HEAD CAP 5-17MM	
	TORX SOCKET NO:20-60	
	BOX SPANNER SET	
	TORQUE WRENCH 10-100Nm	
	TORQUE WRENCH 75-400Nm	
	RATCHET HEAD FOR TORQUE WRENCH 1/2	
	HEXAGON-HEADED SCREW M10X100	
	SOCKET HEAD CAP no:14, LENGTH 140MM	
	SOCKET HEAD CAP no:14, LENGTH 12MM	


\* Has to be combined with 3HAC 11731-1 HYDRAULIC CYLINDER

## Unique tools for IRB 7600

ARTICLE NO.	NAME	
3HAC 13660-1	FIXTURE, LOWER ARM	
3HAC 13120-2	GUIDE PINS, M16X150MM	
3HAC 13120-3	GUIDE PINS, M16X200MM	
3HAC 13120-4	GUIDE PINS, M16X250MM	
3HAC 14627-3	GUIDE PINS, SEALING AXIS 2,3, 100 MM	
3HAC 14627-2	GUIDE PINS, SEALING AXIS 2,3, 80 MM	
3HAC 15536-1	LIFTING DEVICE, UPPER ARM	
3HAC 12731-1	LIFTING TOOL, GEARBOX AXIS 2	
3HAC 12734-1	LIFTING TOOL, WRIST UNIT	
3HAC 13453-1	PRESS TOOL, AXIS 2 BEARING *	
3HAC 15814-1	REMOVAL TOOL, WHEEL UNIT	
3HAC 15943-1	TOOL SET BALANCING DEVISE	

\* Has to be combined with 3HAC 11731-1 HYDRAULIC CYLINDER

## Unique tools for IRB 6600

ARTICLE NO.	NAME	
3HAC 13659-1	FIXTURE, LOWER ARM	
3HAC 16488-1	GEARBOX, CRANK	
3HAC 13056-2	GUIDE PINS M12X150	
3HAC 13056-3	GUIDE PINS M12X200	
3HAC 13056-4	GUIDE PINS M12X250	
3HAC 15520-1	GUIDE PINS M8X100	
3HAC 15520-2	GUIDE PINS M8X150	
3HAC 14628-2	GUIDE PINS, SEALING AXIS 2,3, 100 MM	
3HAC 14628-1	GUIDE PINS, SEALING AXIS 2,3, 80 MM	
3HAC 15994-1	LIFTING DEVICE, UPPER ARM	
3HAC 13698-1	LIFTING TOOL, GEARBOX AXIS 2	
3HAC 13605-1	LIFTING TOOL, WRIST UNIT	
3HAC 13527-1	PRESS TOOL, AXIS 2 BEARING *	
3HAC 15943-2	TOOL SET BALANCING DEVISE	

\* Has to be combined with 3HAC 11731-1 HYDRAULIC CYLINDER

## Calibration Equipment

We offer you the calibration equipment needed to calibrate your robot in the field.

The new calibration method used for the Power Robot generation is the Calibration Pendulum. The Calibration Pendulum is a very accurate calibration tool and the method used is quicker and easier than before which will save you time and efforts.

The tool comes in a box that includes all equipment necessary to perform a calibration. The Calibration Pendulum is available on leasing basis. To ensure the right quality of the Calibration Pendulum a yearly calibration is included. The Calibration Pendulum supports recovery of Absolute Accuracy in field after minor repair.

Article No, Calibration Pendulum:  
3HAC 15716-1



### The Calibration Pendulum box includes:

NAME	QUANTITY
CABLE SET	1
CALIBRATION PENDULUM	1
CALIBRATION PENDULUM INSTRUCTION	1
HEX CAP SCREW LOW HEAD	2
HEX SOCKET HEAD CAP SCREW	2
INCLINOMETER	2
LEVELTRONIC NT/41	1
LOCATING PIN AX.1 (LARGE ROBOTS)	1
LOCATING PIN AX.1 (SMALL ROBOTS)	1
PROTECTION COVER AX.6	5
PROTECTION COVER AX.1	5
PROTECTION SCREW AX.2	5
TORX COUNTERS HEAD SCREW	5
TURNING DISC ADAPTER (LARGE ROBOTS)	1
TURNING DISC ADAPTER (SMALL ROBOTS)	1



The previously used Levelmeter calibration method is also applicable for the Power Robot generation. If you prefer to use your existing Levelmeter calibration tool you need the following additional equipment for the Power Robots.

Additional equipment for the Levelmeter calibration method for IRB 7600:

ARTICLE NO.	NAME
3HAC13908-1	SYNC. ADAPTER
3HAC13908-4	CALIBRATION TOOL AX1

Additional equipment for the Levelmeter calibration method for IRB 6600:

ARTICLE NO.	NAME
3HAC13908-1	SYNC. ADAPTER
3HAC13908-4	CALIBRATION TOOL AX1
3HAC13908-5	MEASURING PIN
3HAC13908-9	CALIBRATION BRACKET

# Upgrade Program


Today's business environment places demands on every manufacturer to constantly increase productivity, improve efficiency and obtain a higher degree of quality.

To the Power Robot generation we offer you a number of hardware and software options possible to add after delivery of your robot system.

Later on Re-build Products will also be available in the Upgrade Program for the Power Robots.

## Add-on Options, Manipulator

### IRB 7600-400/2.55 M2000

OPTION NO.	ARTICLE NO.	NAME	TYPE	REQUIREMENT
61	3HAC 11076-1	MECHANICAL STOP 7,5 & 15 DEG. AX.1	INCLUDES TWO 15 AND TWO 7,5 DEGREE STOP BLOCKS	
62	3HAC 11076-2	MECHANICAL STOP 15 DEG. AX.1	INCLUDES TWO 15 DEGREE STOP BLOCKS	
63	3HAC 11077-1	MECHANICAL STOP AX.2		
64	3HAC 13128-2	MECHANICAL STOP AX.3		
71	3HAC 15715-1	POS SW AX1 COMPL	6 SWITCHES	
72	3HAC 15715-2	POS SW AX2 COMPL	4 SWITCHES	
73	3HAC 15715-3	POS SW AX3 COMPL	4 SWITCHES	
87	3HAC 12937-7	BASE PLATE		
92	3HAC 0604-1	FORK LIFT DEVICE SET		
113, 114, 115		FAN COOLING	OPTION 113=AX.1, OPTION 114=AX.2, OPTION 115=AX.3	
	3HAC 15374-1	FAN		
	3HAC 15641-2	CABLE FOR FAN & POS. SW	POSSIBLE TO CONNECT 3 FANS + POS SW AX.2 & AX.3 TO THE SAME CABLE	
212	3HAC 15807-1	LIMIT SW 1 FUNC. AX.1 COMPL.		
691	3HAC 10830-1	SIGNAL LAMP	MANDATORY FOR UL (695) OR UR (696)	

**IRB 6600-175/2.55, IRB 6600-225/2.55 and IRB 6600-175/2.8 M2000**

OPTION NO.	ARTICLE NO.	NAME	TYPE	REQUIREMENT
61	3HAC 11076-1	MECHANICAL STOP 15 & 7,5 DEG. AX.1	INCLUDES TWO 15 AND TWO 7,5 DEGREE STOP BLOCKS	
62	3HAC 11076-2	MECHANICAL STOP 15 DEG. AX.1	INCLUDES TWO 15 DEGREE STOP BLOCKS	
63	3HAC 13787-1	MECHANICAL STOP AX.2		
64	3HAC 13128-1	MECHANICAL STOP AX.3		
71	3HAC 15715-1	POS SW AX1 COMPLETE	6 SWITCHES	
72	3HAC 16418-1	POS SW AX2 COMPLETE	4 SWITCHES	
73	3HAC 16417-1	POS SW AX3 COMPLETE	4 SWITCHES	
87	3HAC 12937-7	BASE PLATE		
92	3HAC 0604-1	FORK LIFT DEVICE SET		
113, 114, 115		FAN COOLING	OPTION 113=AX.1, OPTION 114=AX.2, OPTION 115=AX.3	
	3HAC 15374-1	FAN		
	3HAC 15697-2	CABLE FOR FAN & POS. SW	POSSIBLE TO CONNECT 3 FANS + POS SW AX.2 & AX.3 TO THE SAME CABLE	
212	3HAC 15807-1	LIMIT SW 1 FUNC. AX.1 COMPLETE		
691	3HAC 10830-1	SIGNAL LAMP	MANDATORY FOR UL (695) OR UR (696)	

## Add-on Options, Controller

### S4Cplus M2000

OPTION NO.	ARTICLE NO.	NAME	TYPE	REQUIREMENT	
123	3HAC 1526-1	COVER CONTROL CUBICLE	CABINET EXTENSION 250MM, TOTAL CABINET HIGHT=1200mm	NOT WITH UL (695)	
124	3HAC 3685-1	CABINET EXTENSION 800 MM		NOT WITH UL (695) OR SERVO DISCON. (144)	
126	3HAC 6552-1	CASTOR WHEELS	INCREASES THE HIGHT WITH 30 MM		
182+191	3HAC 11600-1	EXT.CONTROL PANEL	ENABLES MANUAL FULL SPEED, DOES NOT COMPLY WITH UL AND UR SAFETY STANDARDS	185 OR 186 OR 187	
182+193	3HAC 11602-1	EXT.CONTROL PANEL		185 OR 186 OR 187	
183+191	3HAC 11603-1	EXT.CONTROL PANEL BOX	ENABLES MANUAL FULL SPEED, DOES NOT COMPLY WITH UL AND UR SAFETY STANDARDS	185 OR 186 OR 187	
183+193	3HAC 11607-1	EXT.CONTROL PANEL BOX		185 OR 186 OR 187	
185	3HAC 3335-1	HARNESS EXT.PANEL 15M		182 OR 183. NOT WITH 607	
186	3HAC 3338-1	HARNESS EXT.PANEL 22M		183 OR 183. NOT WITH 606 OR 607	
187	3HAC 3339-1	HARNESS EXT.PANEL 30M		183 OR 183. NOT WITH 606 OR 607	
201	3HAB 7229-1	DIGITAL 24VDC I/O MODULE	16 IN / 16 OUT	251 OR 252	
202	3HNE 00554-1	ANALOG I/O MODULE	4 IN / 4 OUT	251 OR 252	
203	3HAB 7230-1	AD COMBI I/O MODULE	16 DIG IN / 16 DIG OUT, 2 ANALOG OUT	251 OR 252	

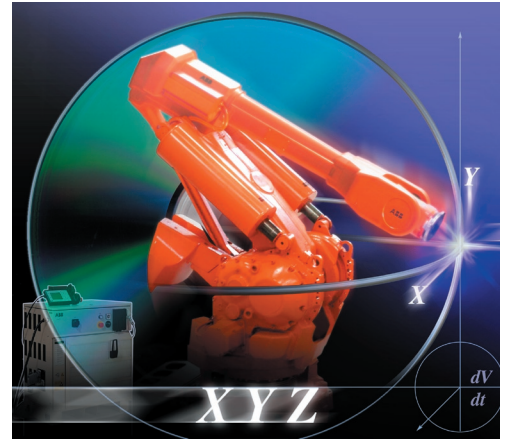
OPTION NO.	ARTICLE NO.	NAME	TYPE	REQUIREMENT	
204	3HAB 7231-1	DIGITAL120VAC I/O MODULE	16 DIG 24V IN / 16 DIG 120VAC OUT	251	
205	3HAB 9669-1	DIGITAL I/O WITH RELAY OUTPUT	16 DIG 24V IN/ 16 DIG RELAY OUT	251	
241	3HNE 00025-1	REMOTE I/O UNIT			
242	3HNE 00006-1	INTERBUS-S SLAVE			
243	3HNE 00009-1	PROFIBUS DP SLAVE UNIT			
244	3HNE 00065-1	CIRCUIT BOARD ENC-01			
251		I/O CONNECTION INTERNAL	CONNECTION TO SCREW TERMINALS		
	3HAB 9715-1	MULTIPOLE CONNECTOR		IF 201	
	3HAB 7342-1	MULTIPOLE CONNECTOR		IF 202	
	3HAB 9715-1 + 3HAB 9664-1	MULTIPOLE CONNECTOR		IF 203	
	3HAB 9743-1	MULTIPOLE CONNECTOR		IF 204	
	3HAB 9743-1	MULTIPOLE CONNECTOR		IF 205	
252		I/O CONNECTION EXTERNAL, LEFT SIDE	CONNECTION TO INDUSTRIAL CONNECTORS	NOT WITH 204 OR 205	
	3HAC 6988-1	HARNESS DIGITAL I/O		IF 201	
	3HAC 6989-1	HARNESS ANALOG I/O		IF 202	
	3HAC 6993-1	HARNESS COMBI I/O		IF 203	
310	3HAC 7519-3	FLASH DISK 128MB			
320	3HAC 13126-1	FLOPPY DISK DRIVE			
37X	*	EXTERNAL AXIS CABINET			

\* Needs to be specified separately

## Add-on Options, RobotWare

### BaseWare 4.0

OPTION NO.	NAME
270	PROFIBUS DP M/S CFG TOOL
271	INTERBUS M/S CFG TOOL
530	ADVANCED FUNCTIONS
531	ADVANCED MOTION
532	MULTITASKING
533	ELECTR. LINKED MOTORS
534	FACTORYWARE INTERFACE
535	RAP COMMUNICATION
536	ETHERNET SERVICES NFS
537	DEVELOPER'S FUNCTIONS
538	I/O PLUS
539	SENSOR INTERFACE
540	CONVEYOR TRACKING
541	LOADID AND COLLDTECT
542	SCREENVIEWER
543	ETHERNET SERVICES FTP
544	ABSOLUTE ACCURACY
547	SENSOR SYNCHRONIZATION
558	DISCRETE APPLICATIONS
561	SERVO TOOL CONTROL
631	SERVO TOOL CHANGE



### ProcessWare

OPTION NO.	NAME
553	SPOTWARE
554	SPOTWARE PLUS
625	SPOTWARE SERVO
626	SPOTWARE SERVO PLUS
557	WELD TIMER SERIAL BOSCH
569	DISPENSEWARE
571	PALLETWARE

When ordering RobotWare Add-on Options, please specify the RobotWare options you already have. This is needed to create a new key-string.

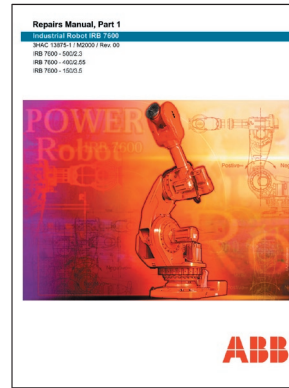


# Product Documentation

The Product Documentation of the Power Robot generation has a new set up to make it easier to read. The documentation is divided into:

- Pre-Installation Manual
- Installation and Commissioning Manual
- Maintenance Manual
- Repairs Manual, Part 1
- Repairs Manual, Part 2 (Circuit Diagrams)

The product documentation is available in nine languages.



## Product Documentation IRB 7600 M2000

ARTICLE NO.	NAME	LANGUAGE
3HAC 12945-1	PRE-INSTALLATION MANUAL IRB 7600 M2000	ENGLISH
3HAC 13798-1	INSTALLATION AND COMMISSIONING MANUAL IRB 7600 M2000	ENGLISH
3HAC 13830-1	GETTING STARDED IRB 7600 M2000	ENGLISH
3HAC 13840-1	MAINTENANCE MANUAL IRB 7600 M2000	ENGLISH
3HAC 13875-1	REPAIRS MANUAL IRB 7600 M2000 PART 1 REPAIRS MANUAL IRB 7600 M2000 PART 2 (CIRCUIT DIAGRAMS)	ENGLISH

3HAC 12946-1	PRE-INSTALLATION MANUAL IRB 7600 M2000	SWEDISH
3HAC 13799-1	INSTALLATION AND COMMISSIONING MANUAL IRB 7600 M2000	SWEDISH
3HAC 13831-1	GETTING STARDED IRB 7600 M2000	SWEDISH
3HAC 13841-1	MAINTENANCE MANUAL IRB 7600 M2000	SWEDISH
3HAC 13877-1	REPAIRS MANUAL IRB 7600 M2000 PART 1 REPAIRS MANUAL IRB 7600 M2000 PART 2 (CIRCUIT DIAGRAMS)	SWEDISH

3HAC 13947-1	PRE-INSTALLATION MANUAL IRB 7600 M2000	GERMAN
3HAC 13800-1	INSTALLATION AND COMMISSIONING MANUAL IRB 7600 M2000	GERMAN
3HAC 13832-1	GETTING STARDED IRB 7600 M2000	GERMAN
3HAC 13842-1	MAINTENANCE MANUAL IRB 7600 M2000	GERMAN
3HAC 13878-1	REPAIRS MANUAL IRB 7600 M2000 PART 1 REPAIRS MANUAL IRB 7600 M2000 PART 2 (CIRCUIT DIAGRAMS)	GERMAN

3HAC 12948-1	PRE-INSTALLATION MANUAL IRB 7600 M2000	FRENCH
3HAC 13801-1	INSTALLATION AND COMMISSIONING MANUAL IRB 7600 M2000	FRENCH
3HAC 13833-1	GETTING STARDED IRB 7600 M2000	FRENCH
3HAC 13843-1	MAINTENANCE MANUAL IRB 7600 M2000	FRENCH
3HAC 13879-1	REPAIRS MANUAL IRB 7600 M2000 PART 1 REPAIRS MANUAL IRB 7600 M2000 PART 2 (CIRCUIT DIAGRAMS)	FRENCH

3HAC 12949-1	PRE-INSTALLATION MANUAL IRB 7600 M2000	SPANISH
3HAC 13802-1	INSTALLATION AND COMMISSIONING MANUAL IRB 7600 M2000	SPANISH
3HAC 13834-1	GETTING STARDED IRB 7600 M2000	SPANISH
3HAC 13844-1	MAINTENANCE MANUAL IRB 7600 M2000	SPANISH
3HAC 13880-1	REPAIRS MANUAL IRB 7600 M2000 PART 1 REPAIRS MANUAL IRB 7600 M2000 PART 2 (CIRCUIT DIAGRAMS)	SPANISH

ARTICLE NO.	NAME	LANGUAGE
3HAC 12950-1	PRE-INSTALLATION MANUAL IRB 7600 M2000	PORTUGUESE
3HAC 13803-1	INSTALLATION AND COMMISSIONING MANUAL IRB 7600 M2000	PORTUGUESE
3HAC 13835-1	GETTING STARDED IRB 7600 M2000	PORTUGUESE
3HAC 13845-1	MAINTENANCE MANUAL IRB 7600 M2000	PORTUGUESE
3HAC 13881-1	REPAIRS MANUAL IRB 7600 M2000 PART 1 REPAIRS MANUAL IRB 7600 M2000 PART 2 (CIRCUIT DIAGRAMS)	PORTUGUESE

3HAC 12951-1	PRE-INSTALLATION MANUAL IRB 7600 M2000	ITALIAN
3HAC 13804-1	INSTALLATION AND COMMISSIONING MANUAL IRB 7600 M2000	ITALIAN
3HAC 13836-1	GETTING STARDED IRB 7600 M2000	ITALIAN
3HAC 13846-1	MAINTENANCE MANUAL IRB 7600 M2000	ITALIAN
3HAC 13882-1	REPAIRS MANUAL IRB 7600 M2000 PART 1 REPAIRS MANUAL IRB 7600 M2000 PART 2 (CIRCUIT DIAGRAMS)	ITALIAN

3HAC 12952-1	PRE-INSTALLATION MANUAL IRB 7600 M2000	DANISH
3HAC 13805-1	INSTALLATION AND COMMISSIONING MANUAL IRB 7600 M2000	DANISH
3HAC 13837-1	GETTING STARDED IRB 7600 M2000	DANISH
3HAC 13847-1	MAINTENANCE MANUAL IRB 7600 M2000	DANISH
3HAC 13883-1	REPAIRS MANUAL IRB 7600 M2000 PART 1 REPAIRS MANUAL IRB 7600 M2000 PART 2 (CIRCUIT DIAGRAMS)	DANISH

3HAC 12953-1	PRE-INSTALLATION MANUAL IRB 7600 M2000	DUTCH
3HAC 13806-1	INSTALLATION AND COMMISSIONING MANUAL IRB 7600 M2000	DUTCH
3HAC 13838-1	GETTING STARDED IRB 7600 M2000	DUTCH
3HAC 13849-1	MAINTENANCE MANUAL IRB 7600 M2000	DUTCH
3HAC 13884-1	REPAIRS MANUAL IRB 7600 M2000 PART 1 REPAIRS MANUAL IRB 7600 M2000 PART 2 (CIRCUIT DIAGRAMS)	DUTCH

## Product Documentation IRB 6600 M2000

ARTICLE NO.	NAME	LANGUAGE
3HAC 12899-1	PRE-INSTALLATION MANUAL IRB 6600 M2000	ENGLISH
3HAC 14056-1	INSTALLATION AND COMMISSIONING MANUAL IRB 6600 M2000	ENGLISH
3HAC 13830-1	GETTING STARDED IRB 6600 M2000	ENGLISH
3HAC 14080-1	MAINTENANCE MANUAL IRB 6600 M2000	ENGLISH
3HAC 14089-1	REPAIRS MANUAL IRB 6600 M2000 PART 1 REPAIRS MANUAL IRB 6600 M2000 PART 2 (CIRCUIT DIAGRAMS)	ENGLISH

3HAC 12900-1	PRE-INSTALLATION MANUAL IRB 6600 M2000	SWEDISH
3HAC 14058-1	INSTALLATION AND COMMISSIONING MANUAL IRB 6600 M2000	SWEDISH
3HAC 13831-1	GETTING STARDED IRB 6600 M2000	SWEDISH
3HAC 14081-1	MAINTENANCE MANUAL IRB 6600 M2000	SWEDISH
3HAC 14090-1	REPAIRS MANUAL IRB 6600 M2000 PART 1 REPAIRS MANUAL IRB 6600 M2000 PART 2 (CIRCUIT DIAGRAMS)	SWEDISH

3HAC 12901-1	PRE-INSTALLATION MANUAL IRB 6600 M2000	GERMAN
3HAC 14059-1	INSTALLATION AND COMMISSIONING MANUAL IRB 6600 M2000	GERMAN
3HAC 13832-1	GETTING STARDED IRB 6600 M2000	GERMAN
3HAC 14082-1	MAINTENANCE MANUAL IRB 6600 M2000	GERMAN
3HAC 14091-1	REPAIRS MANUAL IRB 6600 M2000 PART 1 REPAIRS MANUAL IRB 6600 M2000 PART 2 (CIRCUIT DIAGRAMS)	GERMAN

3HAC 12902-1	PRE-INSTALLATION MANUAL IRB 6600 M2000	FRENCH
3HAC 14060-1	INSTALLATION AND COMMISSIONING MANUAL IRB 6600 M2000	FRENCH
3HAC 13833-1	GETTING STARDED IRB 6600 M2000	FRENCH
3HAC 14083-1	MAINTENANCE MANUAL IRB 6600 M2000	FRENCH
3HAC 14092-1	REPAIRS MANUAL IRB 6600 M2000 PART 1 REPAIRS MANUAL IRB 6600 M2000 PART 2 (CIRCUIT DIAGRAMS)	FRENCH

3HAC 12903-1	PRE-INSTALLATION MANUAL IRB 6600 M2000	SPANISH
3HAC 14066-1	INSTALLATION AND COMMISSIONING MANUAL IRB 6600 M2000	SPANISH
3HAC 13834-1	GETTING STARDED IRB 6600 M2000	SPANISH
3HAC 14084-1	MAINTENANCE MANUAL IRB 6600 M2000	SPANISH
3HAC 14093-1	REPAIRS MANUAL IRB 6600 M2000 PART 1 REPAIRS MANUAL IRB 6600 M2000 PART 2 (CIRCUIT DIAGRAMS)	SPANISH

ARTICLE NO.	NAME	LANGUAGE
3HAC 12904-1	PRE-INSTALLATION MANUAL IRB 6600 M2000	PORTUGUESE
3HAC 14067-1	INSTALLATION AND COMMISSIONING MANUAL IRB 6600 M2000	PORTUGUESE
3HAC 13835-1	GETTING STARDED IRB 6600 M2000	PORTUGUESE
3HAC 14085-1	MAINTENANCE MANUAL IRB 6600 M2000	PORTUGUESE
3HAC 14094-1	REPAIRS MANUAL IRB 6600 M2000 PART 1 REPAIRS MANUAL IRB 6600 M2000 PART 2 (CIRCUIT DIAGRAMS)	PORTUGUESE

3HAC 12905-1	PRE-INSTALLATION MANUAL IRB 6600 M2000	ITALIAN
3HAC 14068-1	INSTALLATION AND COMMISSIONING MANUAL IRB 6600 M2000	ITALIAN
3HAC 13836-1	GETTING STARDED IRB 6600 M2000	ITALIAN
3HAC 14086-1	MAINTENANCE MANUAL IRB 6600 M2000	ITALIAN
3HAC 14095-1	REPAIRS MANUAL IRB 6600 M2000 PART 1 REPAIRS MANUAL IRB 6600 M2000 PART 2 (CIRCUIT DIAGRAMS)	ITALIAN

3HAC 12906-1	PRE-INSTALLATION MANUAL IRB 6600 M2000	DANISH
3HAC 14069-1	INSTALLATION AND COMMISSIONING MANUAL IRB 6600 M2000	DANISH
3HAC 13837-1	GETTING STARDED IRB 6600 M2000	DANISH
3HAC 14087-1	MAINTENANCE MANUAL IRB 6600 M2000	DANISH
3HAC 14096-1	REPAIRS MANUAL IRB 6600 M2000 PART 1 REPAIRS MANUAL IRB 6600 M2000 PART 2 (CIRCUIT DIAGRAMS)	DANISH

3HAC 12907-1	PRE-INSTALLATION MANUAL IRB 6600 M2000	DUTCH
3HAC 14070-1	INSTALLATION AND COMMISSIONING MANUAL IRB 6600 M2000	DUTCH
3HAC 13838-1	GETTING STARDED IRB 6600 M2000	DUTCH
3HAC 14088-1	MAINTENANCE MANUAL IRB 6600 M2000	DUTCH
3HAC 14097-1	REPAIRS MANUAL IRB 6600 M2000 PART 1 REPAIRS MANUAL IRB 6600 M2000 PART 2 (CIRCUIT DIAGRAMS)	DUTCH



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