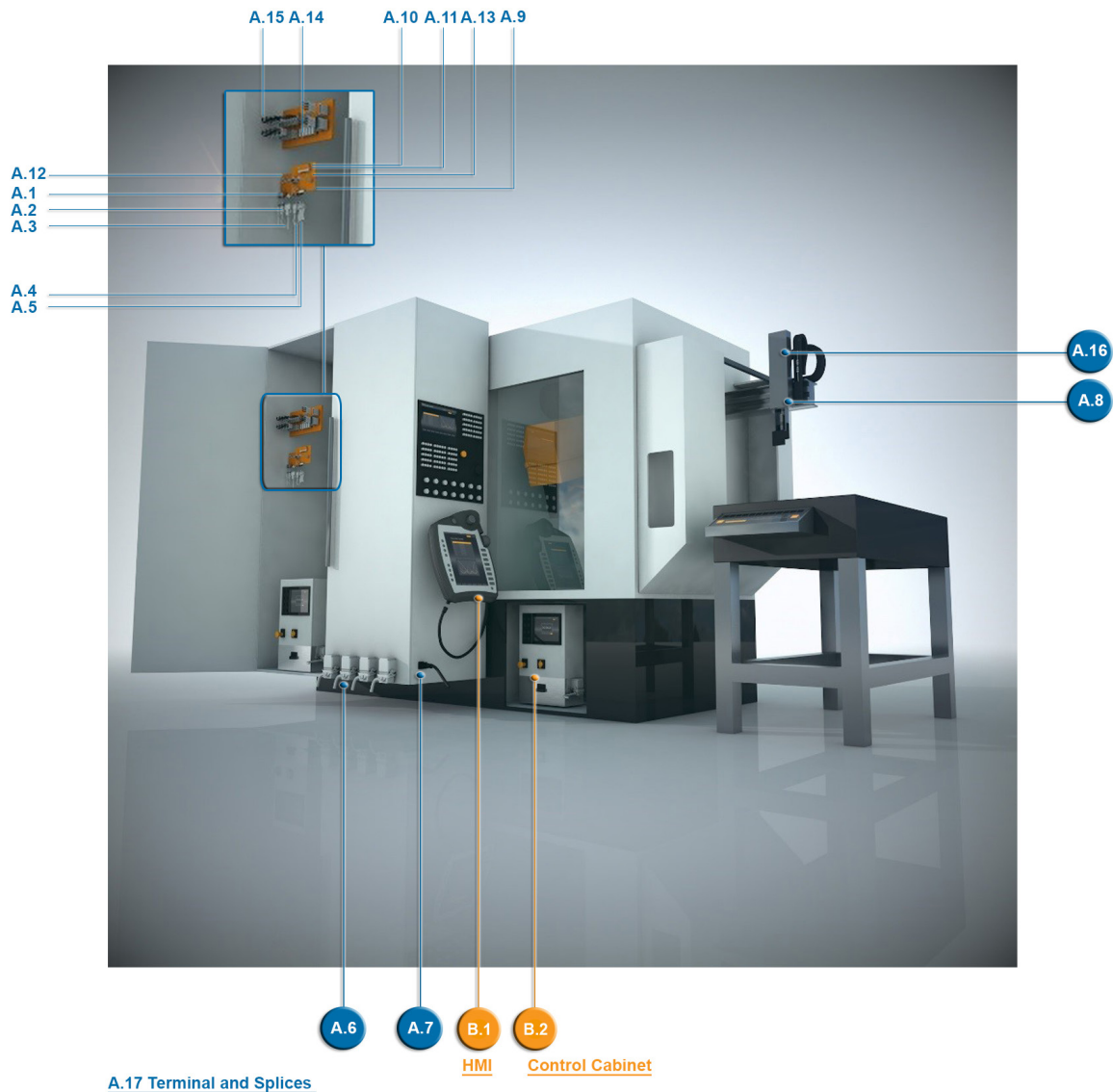


MACHINE TOOL EQUIPMENT

Cheat sheet

Overview



Machine tool equipment solutions

In addition to the dominant topics of Industry 4.0 and increased efficiency, hybridization of machines, increasing intelligence of machine peripherals and simulation of complete machining processes are the main trends machine tool builders are confronted with. Whatever needs to be shaped or processed, TE's reliable, quick installable and industry proven connector solutions support machine tool buildings in realizing their customer needs.

Input / Output



PREFERRED PN	DESCRIPTION	FULL PARTNUMBER
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DATA INTERCONNECT

A.1 USB 2.0

USB 2.0 INDUSTRIAL PLUG	2013798-1
USB 2.0 VERTICAL RECEPTACLE TYPE A THT	1734366-1
USB 2.0 HORIZONTAL RECEPTACLE TYPE A SMT	5353929-1

MODULAR JACKS AND PLUGS

A.2 RJ45

RJ45 IE PLUG IP20 4POS 180DEG FIELD INST.	1903526-1
RJ45 IE PLUG IP20 4POS 45DEG FIELD INST	1987236-1
RJ45 IE PLUG IP20 8POS 180DEG FIELD INST.	1903527-1
RJ45 IE PLUG IP20 8POS 45DEG FIELD INST.	1987236-3
RJ45 CAT5 HORIZONTAL RECEPTACLE 8POS THT	1-5406299-1
RJ45 CAT5 HORIZONTAL RECEPTACLE 8POS SMT	2178126-2
RJ45 CAT5 VERTICAL RECEPTACLE 8POS THT	6116202-2
RJ45 CAT5 VERTICAL RECEPTACLE 8POS SMT	1705549-2
IP20 JACK WITH RJ45 CAT5E 8 POS; UNSHIELDED;IDC	1987671-1
IP20 JACK WITH RJ45 CAT5E 8 POS; SHIELDED	1987672-1

A.3 MINI I/O

MINI IO PLUG TYPE II FI; ISOLATION DIAMETER 1.05-1.15MM	1-2201855-1
MINI IO PLUG TYPE II FI; ISOLATION DIAMETER 0.93-1.05MM	1-2201855-2
MINI IO PLUG TYPE II SOLDER	2040008-1
MINI IO VERTICAL RECEPTACLE TYPE II SMT WITH CAP	1-1971885-2
MINI IO VERTICAL RECEPTACLE TYPE II SMT WITHOUT CAP	1971885-2
MINI IO HORIZONTAL RECEPTACLE TYPE II SMT T&R	2069552-2
MINI IO HORIZONTAL RECEPTACLE TYPE II SMT TRAY	1981386-1

D-SUB

A.4 STANDARD BOARD MOUNT CONNECTORS

DSUB 9POS RIGHT ANGLE PLUG THT	788792-1
DSUB 9POS CABLE CONNECTOR RECEPTACLE	1-747943-5

CHAMP

A.5 CHAMP CONNECTORS

1.27MM PCB PLUG CONNECTOR	3-2232346-1
1.27MM CABLE RECEPTACLE CONNECTOR	3-2232516-1

HEAVY DUTY CONNECTOR

A.6 HDC

HEAVY DUTY HOOD HG-Q	1103073-3
HEAVY DUTY HOUSING HG-Q	1103072-2
HEAVY DUTY MALE INSERT HG-Q	1103095-1
HG-Q FEMALE CONTACT INSERT	1103096-1
HG-Q MALE CONTACT INSERT	1103095-1
HG-Q CABLE GLAND IP 68	1103074-3

CIRCULAR INDUSTRIAL

A.7 CPC

CIRCULAR PLASTIC RECEPTACLE HOUSING	206061-1
CIRCULAR PLASTIC PLUG HOUSING	206060-1
CIRCULAR PLASTIC SOCKET CONTACTS SIZE 16 STAMPED	66100-9
CIRCULAR PLASTIC PIN CONTACTS SIZE 16 STAMPED	66098-9
CIRCULAR PLASTIC CABLE CLAMP	1-206062-4
CIRCULAR PLASTIC HEAT SHRINK BOOT	54010-1
CIRCULAR PLASTIC SEALING CAP	206903-2
CIRCULAR METAL RECEPTACLE HOUSING	208489-1
CIRCULAR METAL PLUG HOUSING	208488-1
CIRCULAR METAL SOCKET CONTACTS SIZE 16 STAMPED	66100-9
CIRCULAR METAL PIN CONTACTS SIZE 16 STAMPED	66098-9
CIRCULAR METAL CABLE CLAMP	208945-7
CIRCULAR METAL SEALING CAP	211903-1

PROFINET

A.8 M8/M12

M12 MALE 4PIN D-CODE STRAIGHT MOUNTED	3-2271142-2
M12 MALE 4PIN D-CODE SHIELDED 5-8MM	3-2271115-2
M12 FEMALE 4PIN D-CODE STRAIGHT MOUNTED	3-2271145-2
M12 FEMALE 4PIN D-CODE SHIELDED 5-8MM	3-2271121-2

M12 MALE 8PIN X-CODE FIELD INSTALL.	2120952-1
M12 FEMALE 8PIN X-CODE REAR PANEL MOUNT WIRE RECEPTACLE	2271195-1
M12 FEMALE 8PIN X-CODE REAR PANEL MOUNT PCB RECEPTACLE	2232331-1

PROFIBUS

A.8 M8/M12

M12 MALE 4PIN A-CODE STRAIGHT PCB MOUNTED	3-2271140-2
M12 MALE 4PIN A-CODE PANEL MOUNTED WITH WIRES	3-2271134-2
M12 MALE 4PIN A-CODE SHIELDED 5-8MM	3-2271113-2
M12 FEMALE 4PIN A-CODE PANEL MOUNT WIRE RECEPTACLE	3-2271137-2
M12 FEMALE 4PIN A-CODE STRAIGHT PCB MOUNTED	3-2271143-2
M12 FEMALE 4PIN A-CODE STRAIGHT F. INSTALL SHIELDED 6-8MM	3-2271117-2

M12 MALE 5PIN B-CODE STRAIGHT PCB MOUNTED	4-2271141-2
M12 MALE 5PIN B-CODE PANEL MOUNTED WITH WIRES	4-2271135-2
M12 MALE 5PIN B-CODE SHIELDED 5-8MM	4-2271113-2
M12 FEMALE 5PIN B-CODE STRAIGHT PCB MOUNTED	4-2271144-2
M12 FEMALE 5PIN B-CODE STRAIGHT F. INSTALL SHIELDED	4-2271119-2
M12 FEMALE 5PIN A-CODE PANEL MOUNTED WITH WIRES	4-2271138-2

M8 MALE 4PIN STRAIGHT FIELD INSTALL. UNSHIELDED 3.5-5MM	2120954-1
M8 MALE 4PIN PANEL MOUNT, LI 200MM	2120958-1
M8 FEMALE 4PIN STRAIGHT FIELD INSTALL. UNSHIELDED 3.5-5MM	2120956-1
M8 FEMALE 4PIN PANEL MOUNT, LI 200MM	2120959-1

I/O LINK

A.8 M8/M12

M12 MALE 5PIN A-CODE STRAIGHT PCB MOUNTED	4-2271140-2
M12 MALE 5PIN A-CODE PANEL MOUNTED WITH WIRES	4-2271134-2
M12 MALE 5PIN A-CODE SHIELDED 5-8MM	4-2271113-2
M12 FEMALE 5PIN A-CODE PANEL MOUNT WIRE RECEPTACLE	4-2271137-2
M12 FEMALE 5PIN A-CODE STRAIGHT PCB MOUNTED	4-2271143-2
M12 FEMALE 5PIN A-CODE STRAIGHT F. INSTALL SHIELDED 6-8MM	4-2271117-2

M8 MALE 5PIN STRAIGHT FIELD INSTALL. UNSHIELDED 3.5-5MM	1-2120954-1
M8 MALE 5PIN PANEL MOUNT, LI 200MM	1-2120958-1
M8 FEMALE 5PIN STRAIGHT FIELD INSTALL. UNSHIELDED 3.5-5MM	1-2120956-1
M8 FEMALE 5PIN E PANEL MOUNT, LI 200MM	1-2120959-1

Board to Board



PREFERRED PN	DESCRIPTION	FULL PARTNUMBER
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MEZZANINE CONNECTORS

A.9 FREE HEIGHT

0.8MM BOARD TO BOARD RECEPTACLE SMT	5177985-1
0.8MM BOARD TO BOARD PLUG SMT	5177984-1
0.8MM BOARD TO BOARD RECEPTACLE SMT	2-1735482-1
0.8MM BOARD TO BOARD PLUG SMT	5-5177986-1

TERMINAL BLOCK

A.10 EUROSTYLE TERMINAL BLOCK

3.50MM FIXED TERMINAL BLOCK SIDE ENTRY SCREW THT	284391-3
3.50MM PLUGGABLE TERMINAL BLOCK VERTICAL HEADER THT	284514-3
3.50MM PLUGGABLE TERMINAL BLOCK RIGHT ANGLE HEADER THT	284512-3
3.50MM PLUGGABLE TERMINAL BLOCK VERTICAL PLUG SCREW	284506-3
3.81MM FIXED TERMINAL BLOCK SIDE ENTRY SCREW THT	284392-3
3.81MM PLUGGABLE TERMINAL BLOCK VERTICAL HEADER THT	284517-3
3.81MM PLUGGABLE TERMINAL BLOCK RIGHT ANGLE HEADER THT	284513-3
3.81MM PLUGGABLE TERMINAL BLOCK VERTICAL PLUG SPRING	1986720-3
5.00MM FIXED TERMINAL BLOCK SIDE ENTRY SCREW THT	796683-3
5.00MM FIXED TERMINAL BLOCK SIDE ENTRY SPRING THT	1776261-3
5.00MM PLUGGABLE TERMINAL BLOCK VERTICAL HEADER THT	796642-3
5.00MM PLUGGABLE TERMINAL BLOCK RIGHT ANGLE HEADER THT	796644-3
5.00MM PLUGGABLE TERMINAL BLOCK VERTICAL PLUG SCREW	284040-3
5.08MM FIXED TERMINAL BLOCK SIDE ENTRY SCREW THT	282841-3
5.08MM PLUGGABLE TERMINAL BLOCK VERTICAL HEADER THT	796636-3
5.08MM PLUGGABLE TERMINAL BLOCK RIGHT ANGLE HEADER THT	796638-3
5.08MM PLUGGABLE TERMINAL BLOCK VERTICAL PLUG SCREW	284041-3

Socket/card products



PREFERRED PN	DESCRIPTION	FULL PARTNUMBER
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MEMORY SOCKET

A.11

SOCKET

M3 MEMORY SOCKET 88POS.
M3 MEMORY SOCKET 72POS.

5316437-1
5179707-1

Cable/wire to Board



PREFERRED PN	DESCRIPTION	FULL PARTNUMBER
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FPC

A.12

FLEXIBLE PRINTED CIRCUIT

0.50MM FFC-FPC RIGHT ANGLE SMT
0.50MM FFC-FPC VERTICAL SMT
1.00MM FFC-FPC RIGHT ANGLE SMT
1.00MM FFC-FPC VERTICAL SMT

2-1734592-0
2-1734741-0
2-84952-0
2-1734248-0

MICRO-MATCH

A.13

MICRO-MATCH

FEMALE ON BOARD VERTICAL THT
FEMALE ON BOARD VERTICAL SMT
FEMALE ON BOARD HORIZONTAL THT
MALE ON BOARD VERTICAL THT
MALE ON BOARD VERTICAL SMT
MALE-ON-WIRE IDC
PADDLEBOARD IDC

338068
338069
215460
215464
338728
215083
215570

Relays



PREFERRED PN	DESCRIPTION	FULL PARTNUMBER
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A.14

RELAYS

FORCE GUIDED RELAY SR2M
V23047-A1024-A511

1-1393258-7

FORCE GUIDED RELAY SR4 D/M
SR4M4024

4-1415053-1

FORCE GUIDED RELAY SR6 A/B/C/V
SR6B4024 (V23050-A1024-A542)

1393260-7

FORCE GUIDED RELAY ON DIN-RAIL SR2 Z
SR22Y024

9-1415536-1

FORCE GUIDED RELAY ON DIN-RAIL SR6 Z
SR6ZB024

5-1415033-1

RELAY PACKAGE SNR
ST3P2LC4

3-1416100-0

RELAY PACKAGE RT
RT3S4LC4

4-1415073-1

RELAY PACKAGE XT
XT3S4LC4

4-1415540-1

RELAY PACKAGE PT
PT5L7LC4

1415535-9

INTERFACE POWER RELAY RT1
RT314024

9-1393239-8

INTERFACE PLUG-IN RELAY XT
XT4B4LC4

1887212-1

MINIATURE RELAY PT
PT570024

1-1393154-2

MULTIMODE RELAY MT
MT321024

7-1393091-0

POWER RELAY RM 2/3/7
RM702024

8-1393146-5

POWER RELAY RM 5/6/B 3MM
RM602024

1393844-4

POWER RELAY RM 8 (25A)
RM809024

5-1393149-8

Cabled power connectors



PREFERRED PN	DESCRIPTION	FULL PARTNUMBER
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A.15

DYNAMIC SERIES CONNECTORS

DYNAMIC 1100 SERIES

2.00MM 2ROW VERTICAL HEADER SMT
2.00MM 2ROW RECEPTACLE HOUSING CTW
2.00MM CTW CONTACT

1-1939995-3
1-1827863-3
1827570-2

DYNAMIC 1500 SERIES

3.50MM MODULAR VERTICAL HEADER THT
3.50MM MODULAR RECEPTACLE HOUSING CTW
3.50MM CTW CONTACT

1-1827581-4
1-1827579-1
1827570-2

DYNAMIC 1900 SERIES

3.50MM 2ROW HORIZONTAL HEADER THT
3.50MM 2ROW RECEPTACLE HOUSING CTW

1-1871935-4
1-1871940-4

DYNAMIC 2100 SERIES

2.50MM 1ROW VERTICAL HEADER THT
2.50MM 1ROW RECEPTACLE HOUSING CTW
2.50MM CTW CONTACT

1318123-1
1-1318120-3
1318105-1

ARISO contactless connectivity



PREFERRED PN	DESCRIPTION	FULL PARTNUMBER
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A.16

ARISO

ARISO TXM030S012PNP2A; TRANSMITTER, 12 W, 2 PNP
ARISO RXM030S012PNP2A; RECEIVER, 12 W, 2 PNP
ARISO TXM030S012PNP8A; TRANSMITTER, 12 W, 8 PNP
ARISO RXM030S012PNP8A; RECEIVER, 12 W, 8 PNP
ARISO RXM030S012PNP8B; RECEIVER, 12 W, 8 PNP

2287598-1
2287598-2
2287598-3
2287598-4
2287598-5

Terminal and splices



PREFERRED PN	DESCRIPTION	FULL PARTNUMBER
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A.17

TERMINAL AND SPLICES

PIDG GPL 097:

RING TONGUE TERMINAL AWG 22-16
RING TONGUE TERMINAL AWG 16-14
RING TONGUE TERMINAL AWG 12-10

2-36154-2
2-36160-1
2-36161-2

SOLISTRAND GPL 204:

SPLICES - CLOSED BARREL AWG 16-14
SPLICES - CLOSED BARREL AWG 22-16
SPLICES - CLOSED BARREL AWG 12-10

34137
34130
34138

WINDOW SPLICES GPL 207

CLOSED BARREL SPLICE AWG 22-16
CLOSED BARREL SPLICE AWG 12-10
CLOSED BARREL SPLICE AWG 16-14

320559
320570
327583

CLOSED END SPLICE GPL 208

CLOSED END BARREL AWG 22-14
CLOSED END BARREL AWG 22-10

35115
53915-1

FASTON TERM PRE-INSUL GPL 215

FASTON RECEPTACLE TERMINAL AWG 22-18
FASTON RECEPTACLE TERMINAL AWG 16-14
FASTON RECEPTACLE TERMINAL AWG 12-10

640903-1
640905-1
640907-2