









ABZ[®] The consistent economic working place system from A to Z

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The consistent economic working place system from A to Z



ABZ® Working place systems for technology and technical communication

The system ABZ has been completely newly developed. Due to this consistent development a further innovation push has been achieved.

The adaptation of the innovative aluminium profiles to the back converts the new ABZ system to a multipurpose system and climbs in the league of the aluminium systems.

With the new ABZ furniture system erfi emphasizes once again its extraordinary innovative power and prominent market position in the field of technical working place systems. The highlights of this offensive model series are of advantage in all departments of the company.

Many advantages of the revolutionary table system varantec[®] are now also deliverable with the new ABZ system and are decisive for the extraordinary high functionality.

ABZ[®] – Innovations



highlight – The innovative lighting technology – your eyes will appreciate it !

An active illumination grid guarantees nonglaring work tops, almost independently of the installation height. The light beams are regularly distributed by the active illumination grid. The anodized surface brightens the working area even more. Therefore, the inclination of the lamp is not necessary. Amongst the 8 highlight basic designs you will definitely find your optimal lamp (see page 28)



erfi sensolight[®] - The revolution of the sensor-controlled light

Contactless switching on and off of the light sources, sensors for presence for the automatic light control and fully automatic regulation of the light volume depending on the ambient light (registered design No. 202 05 736 4) (see page 29)

erfi sensolight[®] - An erfi innovation.



ABZ®-lock - The keyless evolution

The security and comfort of electronic locking systems may not stop behind the door. The technology already known in the furniture system varantec has now been integrated in the ABZ system. By means of infrared or radio transmitters all erfi furniture components can be opened and closed electronically without contact. (see page 20 and 21)

ABZ-lock – An erfi innovation.

highlight – A unique technique, only offered by erfi.



ABZ®- liftline - The solution for height adjustable work tops

Variable working height by means of clamp connections or electrohydraulic height adjustment and adjustment by a crank leave nothing to be desired. Maintenance-free due to elegant and appropriate hydraulic cylinders in the table legs, ensuring a maximum servicelife and simultaneously a maximum solidity regarding vibrations. (see page 46).

ABZ – lift – The modern height adjusting technique – exclusively from erfi !



ABZ®-Laboratory - The new model series for laboratory, development, service and testing This model series with energy attachments, 19 inch device attachments and device cockpits offer an almost inexhaustible variety and always sufficient space for installing the erfi programme acto®, basic and highlab. The solid and welded basic design gives the necessary stability. All table legs are welded with the basic frame. (no bolted legs).

ABZ – Laboratory – A superior and representative system with excellent qualities.



ABZ[®]-Assembly - The new model series for manufacture and assembly

The ABZ-Assembly has the same platform as ABZ-Laboratory.

Numerous system components guarante an optimal functionality in the field of manufacture and assembly. Due to the aluminium extruded profiles adapted to the back, all advantages of an aluminium system are used.

The completely newly developed profile with its 6 grooves guarantees a perfect connection and adjustment with all imagineable system components.

ABZ - Assembly - The design of the aluminium assembly table system is convincing by many new aspects. The lateral aero-color perforated plates with a modern surface provide a pleasant freshness in the world of net product.



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ABZ®-Didactic - The new model series for training and further education ABZ-Didactic has been developed for vocational schools, technical colleges, universities, chamber of handicrafts, colleges, educational technological centres, for all technical training centres as well as for apprenticing companies.

Training islands with multi-corner attachments, electric motor-driven foldaway tables and swivelling tables for a multi-functional training as well as for the integration of the screens leave nothing to be desired already during the planning phase.

ABZ-Didactic – A system which gives freedom for developing creativity.

Working place system for laboratory, development, service and testing

ABZ-Laboratory is a model series which provides all necessary system components in the fields of electric engineering and electronics.



The device attachments and device cockpits:

- Energy attachments and energy cockpits for installing the efficient programme of insert boards acto[®]
- 2. 19 inch device attachments and device cockpits for installing the19 inch device system basic and highlab
- 3. 19 inch combine attachments and combined cockpits for installing the 19 inch device system basic and highlab as well as the programme of insert boards acto[®]
- 4. DINA4 attachments and DINA4 cockpits for installing the DINA4 files







As an alternative to the modern aluminium profile system which is adaptable to the back, all shelves and device cockpits are deliverable with an add-on table attachment.



The new ABZ[®] Aluminium profile system

The aluminium profile system at the back provides new functionality regarding connection and cable management.

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19 inch device cockpits, shelves and other system components are flexibly adaptable and steplessly adjustable in height by their grooves.

Power and data lines can be placed elegantly and invisibly in the groove of the device cockpits. The grooves are covered by a clip profile.

For more extensive cabling, additional channels are available which, as per requirement, can be adapted directly to the ABZ aluminium profile system.

Working place system for training and further education



erfi as a leading manufacturer for all technical professions has extended its laboratory furniture system ABZ by Didactic standard system components. The new Didactic components meet all requirements in the field of training and further education.

Vocational schools and technical colleges, training centres of all kinds, chamber of handicrafts, vocational academies, training colleges, technical colleges and universities are equally equipped with the modern system components from erfi as training centres in big companies.



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Working place system for manufacture and assembly



ABZ-Assembly offers an enormous variety of standardized system components in the field of assembly.

At the back the programme has a solid aluminium profile with 6 grooves. All system components for assembly can be adapted accurately.

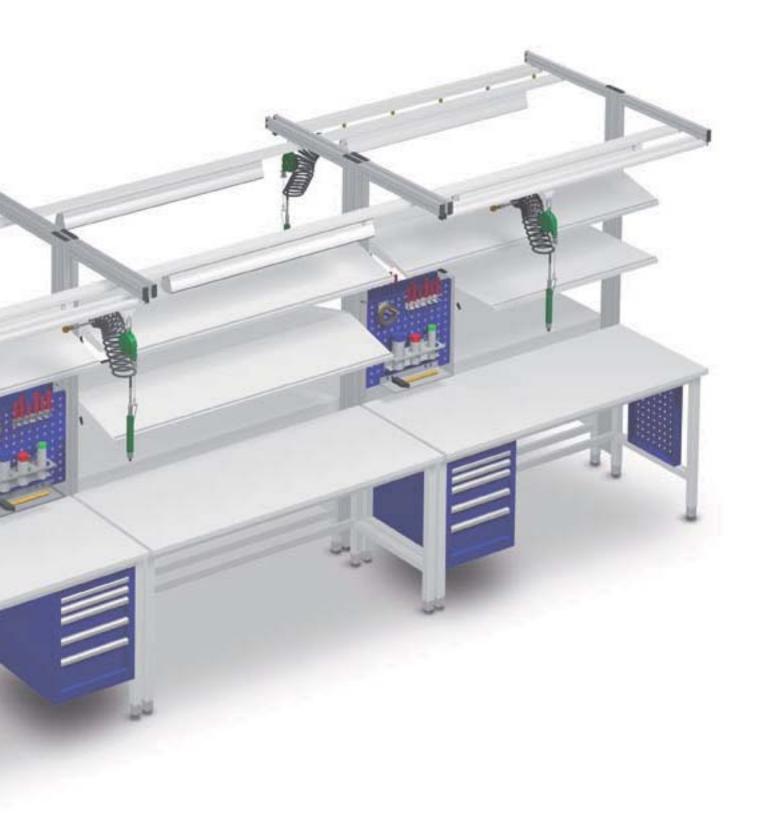
System components such as extension arms, lamps, rails, shelves and energy supplies are only a few examples of the ABZ assembly world.

The system offers height adjustment by clamp connections, cranks and motorized drives as well as the integration of transfer systems in the table tops.

ABZ-Assembly is an absolutely vibrationfree 4-leg table system which allows many configurations and extensions.







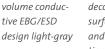
The new ABZ® System offers 10 modern and up-to-date patterns

decorative beech

The combination between four decorative surfaces and four colours of the frames give the system new freshness

Selection of patterns for ABZ work tops

not conductive light-gray



decorative maple surface for office and communication



Selection of patterns for ABZ steel frames light-gray, similar to RAL 9002 preferential colour

aluminium-white black-gray RAL RAL 9006 alternatively available

7021 alternatively available

gentian-blue RAL 5010 alternatively available





light-gray

light-gray

light-gray

light-gray

light-blue

light-gray)

Dekor 1 (*): Work top: Attachment: Drawer unit: Steel frame: Bow-type handle: (Pull:

Dekor 2 (*): Work top: Attachment: Drawer unit: Steel frame: Bow-type handle: (Pull:



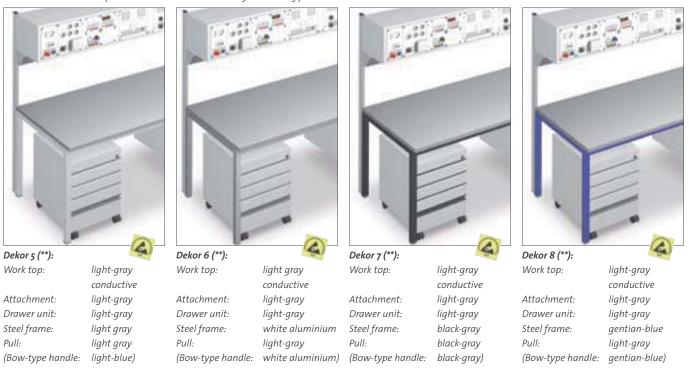
light gray light-gray light-gray white aluminium white aluminium light gray)

Dekor 3 (*): Work top: light-gray Attachment: light-gray Drawer unit: light-gray Steel frame: black-gray Bow-type handle: black-gray black-gray)

Dekor 4 (*): Work top: Attachment: Drawer unit: Steel frame: Bow-type handle: (Pull:

light-gray light-gray light-gray gentian-blue gentian-blue light-gray)

Conductive Patterns pull for drawers: alternatively to bow-type handles



(Pull:

On request all system components such as attachments and drawer units are also available of conductive design! (**) Figures for pattern 5 to 8 with pulls, alternatively with bow-type handles. (*) Figures for pattern 1 to 4 with bow-type handles, alternatively with pulls.



Pattern 9:

-	
Work top:	maple
Attachment:	maple
Drawer unit:	maple
Steel frame:	white aluminium
Bow-type handle:	chromium-plated
(Pulls are not recom	mended for this pattern)

Technical Data: Work top not conductive



Cross section

Raw chipboard, chipboard with a thin chipboard top as per DIN EN 312 CE Decorative side with 0,8 mm brillant HPL, as per dIN EN 438. Technical value as per dIN EN 312.

Chemical resistance:	against organic solvents,
	slight acids and lye, benzine
	and oil, as per DIN 53799
Temperature resistance:	short-term 180° C
Raw density:	approx. 650 kg/m3
Edges:	plastic light-gray, maple or beech



Dekor 10:

Work top:	beech
Attachment:	beech
Drawer unit:	beech
Steel frame:	white aluminium
Bow-type handle:	chromium-plated
(Pulls are not recom	mended for this pattern)

Technische Daten: Arbeitsplatte volumenleitfähig EGB/ESD-Ausführung



Raw chipboard ESA, raw chipboard allowing electro-static discharge with a thin chipboard top as per DIN EN 61340-5 part 1 and 2 (volume conductive) Decorative side with 0,8 mm brillant HPL, as per DIN EN 438. Technical value as per DIN EN 312.

Chemical resistance:

Temperature resistance:
Earth connection resistance:
Raw density:
Edges:

against organic solvent, slight acids and lye, benzine and oil, as per DIN 53799 short-term 180° C 7,5E5 to 1E10 Ohm approx. 650 kg/m3 plastic light-gray

Deviations in colour of the illustrations may be due to the print

Work tables with a basic top

Table top:

30 mm thick, with a plastic edge banding all around

Frame:

profile pipe, solidly welded, optionally with welded-on or screwed-on legs.

Table height:

780 mm, other table heights deliverable on request

Option:

Reinforcement of the lower frame

Selection of pattern:

See page 10-11





Table top flush at the front

The reinforcement of the lower frame is available as an option



ABZ offers the additional variant with a table top projecting by 45 mm at the front

Table top projecting by 45 mm at the front

		Completely assembled with welded legs			Pre-assembled for self-assembly			assembled d legs	Pre-assembled for self-assemblyt	
Width	Depth	Order-No.	Order-No. conductive	Order-No.	Order-No. conductive	Width	Order-No.	Order-No. conductive	Order-No.	Order-No. conductive
1200	600	04.1.1261	04.1.1262	04.1.1263	04.1.1264	645	04.1.1265	04.1.1266	04.1.1267	04.1.1268
	800	04.1.1281	04.1.1282	04.1.1283	04.1.1284	845	04.1.1285	04.1.1286	04.1.1287	04.1.1288
	900	04.1.1291	04.1.1292	04.1.1293	04.1.1294	945	04.1.1295	04.1.1296	04.1.1297	04.1.1298
	1000	04.1.1211	04.1.1212	04.1.1213	04.1.1214	1045	04.1.1215	04.1.1216	04.1.1217	04.1.1218
1600	600	04.1.1661	04.1.1662	04.1.1663	04.1.1664	645	04.1.1665	04.1.1666	04.1.1667	04.1.1668
	800	04.1.1681	04.1.1682	04.1.1683	04.1.1684	845	04.1.1685	04.1.1686	04.1.1687	04.1.1688
	900	04.1.1691	04.1.1692	04.1.1693	04.1.1694	945	04.1.1695	04.1.1696	04.1.1697	04.1.1698
	1000	04.1.1611	04.1.1612	04.1.1613	04.1.1614	1045	04.1.1615	04.1.1616	04.1.1617	04.1.1618
1800	600	04.1.1861	04.1.1862	04.1.1863	04.1.1864	645	04.1.1865	04.1.1866	04.1.1867	04.1.1868
	800	04.1.1881	04.1.1882	04.1.1883	04.1.1884	845	04.1.1885	04.1.1886	04.1.1887	04.1.1888
	900	04.1.1891	04.1.1892	04.1.1893	04.1.1894	945	04.1.1895	04.1.1896	04.1.1897	04.1.1898
	1000	04.1.1811	04.1.1812	04.1.1813	04.1.1814	1045	04.1.1815	04.1.1816	04.1.1817	04.1.1818
2000	600	04.1.2061	04.1.2062	04.1.2063	04.1.2064	645	04.1.2065	04.1.2066	04.1.2067	04.1.2068
	800	04.1.2081	04.1.2082	04.1.2083	04.1.2084	845	04.1.2085	04.1.2086	04.1.2087	04.1.2088
	900	04.1.2091	04.1.2092	04.1.2093	04.1.2094	945	04.1.2095	04.1.2096	04.1.2097	04.1.2098
	1000	04.1.2011	04.1.2012	04.1.2013	04.1.2014	1045	04.1.2015	04.1.2016	04.1.2017	04.1.2018
Reinforcement of the frame at		04.1.3000		4 pcs. V	2A leg slider	for EGB tables	04.1.3100			

the side and at the back

4 pcs. V2A leg sliders for EGB tables 04.1 instead of a discharge connection

Work tables with postforming table top

Table top:

30 mm thick, with an ergonomically designed postforming edge. Surface HPL laminate. **Frame:**

profile pipe, solidly welded, optionally with welded-on or screwed-on legs.

Table height:

780 mm, other table height deliverable on request.

Option:

Reinforcement of the lower frame

Selection of pattern:

See page 10-11



The reinforcement of the lower frame is available as an option

Completely mounted with a welded frame



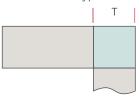
Pre-assembled for self-assembly

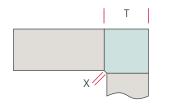
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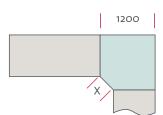
Width	Depth	Order No.	Order No. conductive	Order No.	Order No. conductive
1200	645	04.2.1261	04.21262	04.2.1263	04.2.1264
	845	04.2.1281	04.2.1282	04.2.1283	04.2.1284
	945	04.2.1291	04.2.1292	04.2.1293	04.2.1294
	1045	04.2.1211	04.2.1212	04.2.1213	04.2.1214
1600	645	04.2.1661	04.2.1662	04.2.1663	04.2.1664
	845	04.2.1681	04.2.1682	04.2.1683	04.2.1684
	945	04.2.1691	04.2.1692	04.2.1693	
	1045	04.2.1611	04.2.1612	04.2.1613	04.2.1614
1800	645	04.2.1861	04.2.1862	04.2.1863	04.2.1864
	845	04.2.1881	04.2.1882	04.2.1883	04.2.1884
	945	04.2.1891	04.2.1892	04.2.1893	04.2.1894
	1045	04.2.1811	04.2.1812	04.2.1813	04.2.1814
2000	645	04.2.2061	04.2.2062	04.2.2063	04.2.2064
	845	04.2.2081	04.2.2082	04.2.2083	04.2.2084
	945	04.2.2091	04.2.2092	04.2.2093	04.2.2094
	1045	04.2.2011	04.2.2012	04.2.2013	04.2.2014
Reinforcement of the frame at the side and at the back		04.1.3000	V2A leg sliders for EGB tables instead of a discharge connection		04.1.3100

Linkable tables

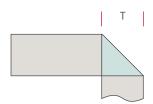
ABZ linkable tables are the precondition for an optimal interior design from an architectural and working point of view. The design principally corresponds to the basic types of table.

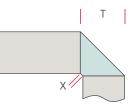


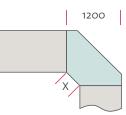




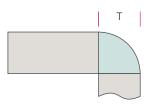
									\smile	
Depth		Basic board		Postforming	Postforming			d	Postforming	
of table	Design	Order No.	Tmm	Order No.	Tmm	X mm	Order No.	X mm	Order No.	X mm
600	Standard	04.1.4161	600	04.2.4161	675	42	04.1.4261	849	04.2.4261	785
600	EGB 🙇	04.1.4162	600	04.2.4162	675	42	04.1.4262	849	04.2.4262	785
800	Standard	04.1.4181	800	04.2.4181	875	42	04.1.4281	566	04.2.4281	502
800	EGB 🎑	04.1.4182	800	04.2.4182	875	42	04.1.4282	566	04.2.4282	502
900	Standard	04.1.4191	900	04.2.4191	975	42	04.1.4291	424	04.2.4291	361
900	EGB 🙇	04.1.4192	900	04.2.4192	975	42	04.1.4292	424	04.2.4292	361
1000	Standard	04.1.4111	1000	04.2.4111	1075	42	04.1.4211	283	04.2.4211	219
1000	EGB 🙇	04.1.4112	1000	04.2.4112	1075	42	04.1.4212	283	04.2.4212	219

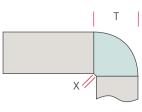


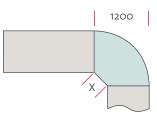




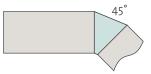
Depth Basic board		Postforming	Postforming			1	Postforming			
of table	Design	Order No.	Tmm	Order No.	Tmm	X mm	Order No.	X mm	Order No.	X mm
600	Standard	04.1.5161	600	04.2.5161	675	42	04.1.5261	849	04.2.5261	785
600	EGB 🧟	04.1.5162	600	04.2.5162	675	42	04.1.5262	849	04.2.5262	785
800	Standard	04.1.5181	800	04.2.5181	875	42	04.1.5281	566	04.2.5281	502
800	EGB 🧟	04.1.5182	800	04.2.5182	875	42	04.1.5282	566	04.2.5282	502
900	Standard	04.1.5191	900	04.2.5191	975	42	04.1.5291	424	04.2.5291	361
900	EGB 🧟	04.1.5192	900	04.2.5192	975	42	04.1.5292	424	04.2.5292	361
1000	Standard	04.1.5111	1000	04.2.5111	1075	42	04.1.5211	283	04.2.5211	219
1000	EGB 🧟	04.1.5112	1000	04.2.5112	1075	42	04.1.5212	283	04.2.5212	219

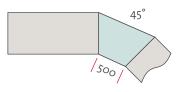




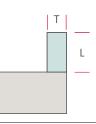


Depth		Basic board	1	Postforming			Basic board		Postforming	5
of table	Design	Order No.	Tmm	Order No.	Tmm	Xmm	Order No.	X mm	Order No.	X mm
600	Standard	04.1.6161	600	04.2.6161	675	42	04.1.6261	849	04.2.6261	785
600	EGB 🎑	04.1.6162	600	04.2.6162	675	42	04.1.6262	849	04.2.6262	785
800	Standard	04.1.6181	800	04.2.6181	875	42	04.1.6281	566	04.2.6281	502
800	EGB 🎑	04.1.6182	800	04.2.6182	875	42	04.1.6282	566	04.2.6282	502
900	Standard	04.1.6191	900	04.2.6191	975	42	04.1.6291	424	04.2.6291	361
900	EGB 🔍	04.1.6192	900	04.2.6192	975	42	04.1.6292	424	04.2.6292	361
1000	Standard	04.1.6111	1000	04.2.6111	1075	42	04.1.6211	283	04.2.6211	219
1000	egb 🏼 🏹	04.1.6112	1000	04.2.6112	1075	42	04.1.6212	283	04.2.6212	219

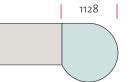




Depth		Basic board	Postforming	Basic board	Postforming	
of table	Design	Order No.	Order No.	Order No.	Order No.	
600	Standard	04.1.8161	04.2.8161	04.1.8261	04.2.8261	
600	EGB 🙇	04.1.8162	04.2.8162	04.1.8262	04.2.8262	
800	Standard	04.1.8181	04.2.8181	04.1.8281	04.2.8281	
800	EGB 🔕	04.1.8182	04.2.8182	04.1.8282	04.2.8282	
900	Standard	04.1.8191	04.2.8191	04.1.8291	04.2.8291	
900	EGB 🔕	04.1.8192	04.2.8192	04.1.8292	04.2.8292	
1000	Standard	04.1.8111	04.2.8111	04.1.8211	04.2.8211	
1000	EGB 🧟	04.1.8112	04.2.8112	04.1.8212	04.2.8212	

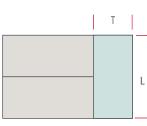


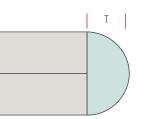
Depth		Basic
of table	Design	board
Т		Order No.
400	Basis	04.1.7841
400	Basis EGB 🎑	04.1.7842
600	Basis	04.1.7861
600	Basis EGB 🎑	04.1.7862
600	Basis	04.1.7161
600	Basis EGB 🎑	04.1.7162
	of table T 400 400 600 600 600	of tableDesignT400Basis400Basis EGB (a)600Basis EGB (a)600Basis EGB (a)600Basis EGB (a)600Basis

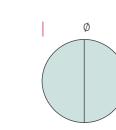




Depth		Basic board	Basic board	
of table	Design	Order No.	Order No.	
800	Standard	04.1.9181	04.1.9281	
800	EGB 🧟	04.1.9182	04.1.9282	
900	Standard	04.1.9191	04.1.9291	
900	EGB 🧟	04.1.9192	04.1.9292	
1000	Standard	04.1.9111	04.1.9211	
1000	EGB 🧟	04.1.9112	04.1.9212	







Depth		Basic board			Basic board		Basic board	
of table	Design	Order No.	Lmm	Tmm	Order No.	Tmm	Order No.	ø mm
800	Standard	04.1.0181	1600	800	04.1.0281	800	04.1.0381	1600
800	EGB 🔌	04.1.0182	1600	800	04.1.0282	800	04.1.0382	1600
900	Standard	04.1.0191	1800	900	04.1.0291	900	04.1.0391	1800
900	EGB 🧟	04.1.0192	1800	900	04.1.0292	900	04.1.0392	1800
1000	Standard	04.1.0111	2000	1000	04.1.0211	1000	04.1.0311	2000
1000	EGB 🧟	04.1.0112	2000	1000	04.1.0212	1000	04.1.0312	2000

Suspended drawer units

- · Equipped with well-arranged drawers.
- Top drawer equipped in series with a high-quality insert for writing utensils.
- Front height 1 HE (HE = height unit, 1 HE = 50 mm)
- Front height of drawers from 2 HE to 7 HE

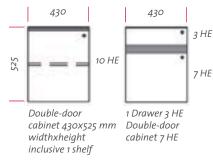


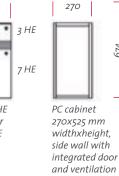
Drawer fronts

On request bow-type handles are available against extra charge



of standard de	esign with pulls				
"x" please repl	lace by 1 or 2	430			
1 = non-condu	ctive patterns	1 HE	1 HE	1 HE	1 HE
(light-gray,	maple or beech)	2 HE	3 HE	2 HE	2 HE
2 = conductive	e pattern 🍳	525	3 HE	2 HE	3 HE
(light-gray -	– EGB/ESD design)	7 HE		2 HE	
Dept of drawe	er unit Usable depth		3 HE	3 HE	4 HE
580	490	04.3.1065.x	04.3.2065.x	04.3.3065.x	04.3.4065.x
780	490	04.3.1085.x	04.3.2085.x	04.3.3085.x	04.3.4085.x
780	690	04.3.1087.x	04.3.2087.x	04.3.3087.x	04.3.4087.x
880	490	04.3.1095.x	04.3.2095.x	04.3.3095.x	04.3.4095.x
880	690	04.3.1097.X	04.3.2097.x	04.3.3097.x	04.3.4097.x
980	490	04.3.1105.x	04.3.2105.X	04.3.3105.x	04.3.4105.x
980	690	04.3.1107.X	04.3.2107.X	04.3.3107.x	04.3.4107.X







270

19 PC cabinet

270x674 mm

widthxheight,

side wall with

integrated door

and ventilation

674

19 inch cabinet 13 HE 562x674 mm widthxheight



PC basin 156-250x450x70 mm (width x depth x height), adjustable in width. Assembly position at the left Order No. 04.3.9001 Assembly postition at the right Order No. 04.3.9002

Dept of drawer unit

Dept of drawer unit			grid	grid	
580	04.3.5060.x	04.3.6060.x	04.3.7060.x	04.3.7160.x	04.3.8160.x
780	04.3.5080.x	04.3.6080.x	04.3.7080.x	04.3.7180.x	04.3.8180.x
880	04.3.5090.x	04.3.6090.x	04.3.7090.x	04.3.7190.x	04.3.8190.x
980	04.3.5100.x	04.3.6100.x	04.3.7100.x	04.3.7200.X	04.3.8200.x

Drawer units with rollers

- · Range of movable drawer units
- · Equipped with well-arranged drawers
- Stop-control-plus function (security against unintentional opening which cannot be outwitted)
- Top drawer as a standard with a high-quality insert for writing utensils
- · Front height 1 HE (HE = height unit, HE = 50 mm)
- Front height of drawers from 2 HE to 7 HE



On request bow-type handles are available against extra charge

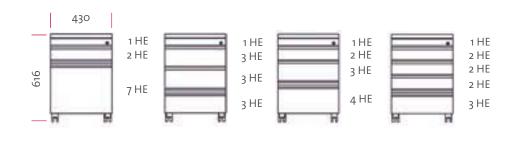
Drawer fronts

of standard design with pulls

",x" please replace by 1 or 2 1 = non-conductive patterns

(light-gray, maple or beech) 2 = conductive patterns

(light-gray – EGB/ESD design)



Dept of drawer unit Usable depth of drawer

573 mm	490 mm	04.4.1054.X	04.4.2054.x	04.4.3054.X	04.4.4054.X	
773 mm	490 mm	04.4.1074.X	04.4.2074.X	04.4.3074.X	04.4.4074.X	
773 mm	690 mm	04.4.1076.x	04.4.2076.x	04.4.3076.x	04.4.4076.x	

Options

Full drawer extension	per drawer	04.4.0001
Main locking mechanism	per locking cylinder	04.4.0004
Main key	per piece	04.4.0005
Spare key	per piece	04.4.0006
Spare key	for main locking mechanism per piece	04.4.0007
Spare main key	per piece	04.4.0008
Leading-in cable box	Ø 50 mm	04.4.0009
Leading-in cable box	Ø 70 mm	04.4.0010
Leading-cable box	Leading-cable box PG 48, ϕ 50 mm for 19"	04.4.0011



🛛 erfi

Organizational elements for steel drawers: Compartment dividers

Article

black - for a proper



Divider double-walled with a lateral catch for the safe locking in	Steel powder- coated black	327 x 10 x 76 mm	V 6.8.102
the side wall	Plastic black	327 x 10 x 76 mm	V 6.8.103
		A4 = 310 x 1 x 72 mm	V 6.8.104
Compartment divider	Steel powder-	A5 = 220 x 1 x 72 mm	V 6.8.105
compartment avviaer	coated black	Аб = 150 x 1 x 72 mm	V 6.8.107
		A7 = 110 x 1 x 72 mm	V 6.8.106
Article	Size		Order No.
Article Filing compartment for forms, angle adjustable Plastic			V 6.8.301

Size

Order No.

- 6 files for forms - 4 dividers filing of DIN A4 pages for drawers of a usable width of 327 mm, usable depth 490 or 690 resp. and a width of the drawer unit of 430 mm Filing compartment 11-fold consisting of: V 6.8.302 - 11 files for forms - 8 dividers for drawers

for drawers of a usable width of 327 mm, usable depth 690 mm and a width of the drawer unit of 430 mm

Article	Size		Order No.
Article Suspension frame nickle-plated steel, plastic black	for a usable size of 327 mm	Usable depth of drawer 490 mm	V 6.8.305
- for suspending DIN A4 files - front height of drawer 7 HE - inclusive separators (1 with a usable drawer depth 490 mm) (2 usable drawer depth 690 mm)	and a width of the drawer unit of 430 mm	Usable depth of drawer 690 mm	V 6.8.306



Article	Size	Order No
Stamp holder	327 x 110 x 30 mm	V 6.8.307
powder-coated black	(width of drawer unit 430 mm)	
- for 8 stamps and date stamp	-	
Displaceable insert		V 6.8.309
for writing utensils		
plastic black		

- to be inserted in the steel drawer



Organizational elements for steel drawers: Plastic drawer inserts

	Article		Material	Size	Order No.
		Compartment dividers (2 pcs. required) with lateral catches for the safe locking in the side wall	Steel,powder coated black	327 x 65 x 78 r	nm V 6.8.202
		Swinging sheet metal plate to be inserted in 2 dividers	Steel, powder coated black	A4 quer = 317 > A5 quer = 227 > A6 quer = 167 >	(1 x 148 mm V 6.8.204
Example: Order No. V6.8.403		Suitable for a u	sable drawer	o properly store sma depth of 490 mm, 6 drawer depth of 690	inserts and 1 supple-
Article		Width of dra	wer unit Siz	е	Order No.
	Drawer insert - with 3 compartn - for tools	nents 430 mm	327	7 x 490 x 40 mm	V 6.8.401
11	Drawer insert - with 34compartr - for tools	ments 430 mm	327	7 x 490 x 40 mm	V 6.8.402
111	Drawer insert - with 6 compartn - for tools	nents 430 mm	327	7 x 490 x 40 mm	V 6.8.403
The second	Drawer insert - with 8 compartn - for tools	nents 430 mm	327	7 x 490 x 40 mm	V 6.8.404
	Drawer insert - 2 partitions - with totally 30 co ments - for small items	ompart- 430 mm	327	7 x 490 x 40 mm	V 6.8.405
Constant of the second	Drawer insert - 2 partitions - with totally 25 cc ments - for small items	ompart- 430 mm	32;	7 x 490 x 40 mm	V 6.8.406
111	Supplementary in: - for a usable draw of 690mm - with 3 compartm	ver depth 430 mm	327	7 x 200 x 40 mm	V 6.8.407

erfi

The keyless evolution ABZ®-lock



Infrared transmitter

Radio transmitter (transponder)



The security and comfort of electronic locking systems may not stop behind the door. Consequently, the safety locking system ABZlock in the digital locking and organization systems of the building technique is of almost unlimited advantage to the user. ABZ-lock is a comprehensive electronic locking system. The system is available in two variants:

ABZ®-lock – design variants

- Electronic locking system with infrared technology. This system is mainly used for facilities for which the previous building management does not have an electronic locking system.
- Electronic locking system with radio technology. Nowadays new buildings are already equipped with electronic locking systems.
 By means of ABZ-lock the entire furniture can be included in the electronic locking plan of the buildings's management.

All lockable erfi furniture system components can be equipped with the innovative ABZ-lock technique:

- Complete cabinet systems varantec pro and varantec-select
- Complete drawer unit programme

Advantages of the electronic locking system:

- Infinite locking system which allows to realize easily also complex structures
- Opening and locking by the push of a button
- Minimum administrative work due to a simple programming
- When changing the personnel or when moving, no complicated ordering of new keys but only a simple reprogramming necessary
- Loss of a key without loss of security: Immediate blocking possible. This saves consequential costs!
- Cableless due to an internal current supply, also suitable for sliding drawer units
- Audible warning signals in case of diminuishing battery voltage
- Visible indication of locking and unlocking processes
- The programming is maintained even without energy supply
- Batteries which are common on the market, simple battery change
- Long servicelife of the batteries, 2 years for tenfold opration per day
- With radio technology: Individual transponders can be permitted or blocked resp. for individual time spans

The technology - the system

ABZ-lock comprises a few modular units: A transponder and an infrared transmitter resp. which on the push of a button activates an electronic control module which in turn releases the motorised locking mechanisms to either unlock the piece of furniture or to lock it. The electronic control module is the same for all furniture system components.

With the infrared technology there is an optical unit for the correct interaction between transmitter and receiver. At the same time the correct locking is signalized to the user in red and the correct unlocking in green. The optical unit is inserted in the front of the piece of furniture.

Different locking mechanisms are adapted to the type of locking of the piece of furniture. The locking mechanisms are coupled with the electronic control module. An intelligent technique which is a must for a new investment.

ABZ®-lock with infrared technology/programming

The programming of the individual furniture components can be made in all cases without additional hardware or software. As with normal key-operated lockings there is a difference between locking with and without main or general key-operated locking systems.

Electronic locking for individual pieces of furniture without a main or general locking system resp. (basic programming)

The lock is simply programmed with a stick and a transmitter. By inserting the stick in the electronic control module, the programming mode is activated (teach-in mode). By simply operating the transmitter the same is trained. In this way up to 100 different transmitters per lock can be programmed.

Each transmitter is unique. Several billions of different transmitters render this system untouchable. In case of the loss of a transmitter, a new transmitter can be trained very quickly. Everything can be deleted and trained again by an integrated reset button.

Locking systems for facilities with a main or general locking system (comfort programming)

With this comfortable locking an additional blue programming transmitter is supplied for the complete locking system. For the blue transmitter a conventional safety certificate is issued. In case of loss the programming transmitter can be reproduced against presentation of this safety certificate. The purpose of this programming transmitter is to put all control modules of the locking system into programming mode.



Optical unit for the infrared technology



Example of the locking mechanism



Electronic control module



If a control module is in programming mode, the individual transmitters can be trained and deleted without contact. In this way complete main and general locking systems can be programmed on site. With this variant programming itself can easily be done from outside.

Article		Order No.	
Electronic locking Sliding door		04.7.301	
	Roll shutters	04.7.302	
	Double doors	04.7.303	
	Drawers	04.7.304	
Infrared transmitter ca as an option chromiur	0	04.7.305	
Spare programming st system is included as a	04.7.306		
Programming transmi (comfortable contactle	04.7.307		
Note:			
Transponder on request.			

The new aluminium leg system profile



Dimensions: 60 x 23 mm Grooves: 4 T-grooves 17 mm wide 2 T-grooves 12 mm wide Central pipe: to house the base plates etc.

Length of profile	Order No. Profile natu- rally anodized E6 EV1	Order No. Profile powder-coated white aluminium RAL 9006	Order No. pro- file powder coated black- gray RAL 7021	Order No. Profile powder- coated gentian blue RAL 5010
1000mm	04.10.0010	04.10.0110	04.10.0210	04.10.0310
1300mm	04.10.0013	04.10.0113	04.10.0213	04.10.0313
1600mm	04.10.0016	04.10.0116	04.10.0216	04.10.0316
1800mm	04.10.0018	04.10.0118	04.10.0218	04.10.0318
2000mm	04.10.0020	04.10.0120	04.10.0220	04.10.0320
2200mm	04.10.0022	04.10.0122	04.10.0222	04.10.0322

Suitable sliding blocks for the aluminium leg system profile



Order No. 04.10.0001 Sliding block with M4 thread inclusive spring for a 12 mm groove



Order No. 04.10.0002 Sliding block with M5 thread inclusive spring for a 12 mm groove





Order No. 04.10.0003 Swinging-in sliding block with M5 thread for a 17 mm groove with an affixed spring



Order No. 04.10.0004 Swinging-in sliding block with M6 thread for a 17 mm groove with an affixed spring



Order No. 04.10.0005 Swinging-in Sliding block with M8 thread for a 17 mm groove with an affixed spring



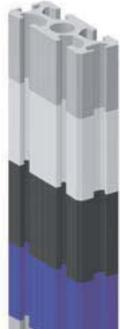
The colours of the new aluminium leg system prof

Naturally anodized E6 EV1

White aluminium RAL 9006

Black-gray RAL 7021

Gentian blue RAL 5010





Order No. 04.10.0006 Angular sliding block with M6 thread for a 17 mm groove

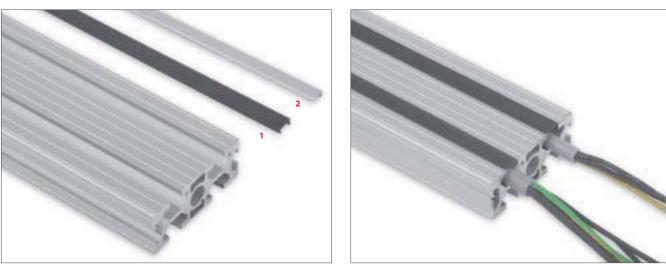




Order No. 04.10.0007 Angular sliding block with M6 thread for a 12 mm groove



Possible wirings for power and data lines



1 = clip profile anthracite for 17 mm grooves (lateral grooves)
2 = clip profile natural aluminium for 12 mm grooves (grooves at the front and at the back)

The modern aluminium leg system profile combines an optimal functionality with a maximum of economy. 6 integrated wiring channels guarantee sufficient space for the data and power lines.

New clip profiles made of plastic and aluminium close the wiring space flexibly and thus ensure an excellent performance and are simultaneously nice to look at.

With a high number of cables additional add-on channels can be adapted simply and flexibly. The clip profiles cover the space for the cables which are sufficient for 1-phase or 3-phase power supply lines. Data lines can also nicely be placed in the same space as the cable. For covering cable space the clip profiles are simply and flexibly pressed into the grooves.



Also the 12 mm groove at the front can be covered by a suitable clip profile made of aluminium. Therefore, the aluminium leg system profiles can also be used in clean rooms.

The lateral 17 mm grooves are covered with the clip profile made of plastic. If need be, 1 to 4 grooves can be used for the cables. This always guarantees the separation of power and data lines. At the outlet position of the cables, the clip profile is simply interrupted.

erti

Using the clip profile technique even lines with the connector can be placed-in without having to dismount the connector. A considerable advantage of this system!

	Profile length					
Clip profile for	Order No. for 1000mm	Order No. for 1300mm	Order No. for 1600mm	-	Order No. for 2000mm	Order No. for 2200mm
12 mm grooves (at the front, natural aluminium)	04.10.0510	04.10.0513	04.10.0516	04.10.0518	04.10.0520	04.10.0522
17 mm grooves (lateral, anthracite plastic)	04.10.0610	04.10.0613	04.10.0616	04.10.0618	04.10.0620	04.10.0622

The new aluminium leg system profile in function



For straight storage boards in connection with a system channel installed underneath



For inclinable storage boards

For 19" device cockpits

optionally with 3 or 6 HE, with a system channel installed underneath or with a steel frame



Extension arms, perforated sheet metal plates, swivel arms etc.





The storage board programme

The new range of storage boards can directly be adapted to the back of the aluminium leg system profile. Due to the grooves in the aluminium leg system profile, all types of storage boards can be steplessly adjusted in height. 3 models are available:

1. Storage board module for a system channel installed underneath

Material: 30 mm thick chipboard with a top of fine chipboard, coated with laminate, not conductive alternatively volume conductive of EGB/ESD design 360 mm deep

Width of	not	conductive
table [mm]	conductive	EGB/ESD
1200	04.11.1230	04.11.1231
1600	04.11.1630	04.11.1631
1800	04.11.1830	04.11.1831
2000	04.11.2030	04.11.2031

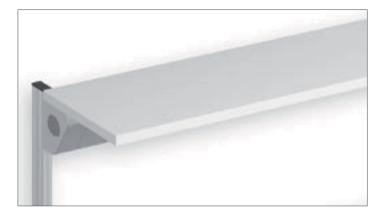
Note: The system channel has to be ordered separately, see page 26

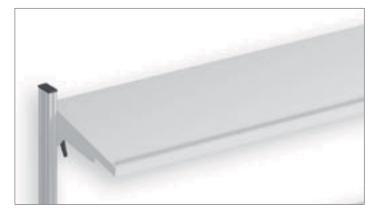
2. Storage board module, steplessly inclinable,

with a steel frame installed underneath

Material: 30 mm thick chipboard with a top of fine chipboard, coated with laminate, not conductive alternatively volume conductive of EGB/ESD design inclusive a stopper edge at the front 360 mm deep.

Width of table [mm]	not conductive	conductive EGB/ESD	(A)
1200	04.11.1232	04.11.1233	
1600	04.11.1632	04.11.1633	
1800	04.11.1832	04.11.1833	
2000	04.11.2032	04.11.2033	



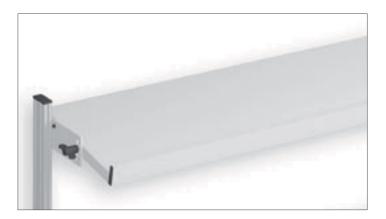


3. Storage board module made of sheet steel, steplessly inclinable and adjustable in depth

Material: sheet steel powder-coated inclusive

stopper edge at the front 360 mm deep

Width of table [mm]	not conductive	conductive EGB/ESD
1200	04.11.1234	04.11.1235
1600	04.11.1634	04.11.1635
1800	04.11.1834	04.11.1835
2000	04.11.2034	04.11.2035



erfi

The universal ABZ[®] system channel, adjustable in height

Since the first presentation on the market in the year 1986 this system component has been continuously further developed and its performance has been considerably improved. This erfi innovation represents today a nearly indispensable component for all communicative and technical fields of work. The channel can be equipped with the efficient 19 inch insert board programme. Innovative illumination engineering, modules such as fuse protections, sockets, small current supplies, soldering stations, compressed air supplies, various measuring devices etc. can ideally be integrated in this system. The entire system is height adjustable and thus flexibly adaptable to changes.



The system channel as self-supporting and independent element. Form Follows Function. A formula of success which has been optimally integrated in this element.



In connection with storage boards the system channel gets another function. The channel is a solid supporting structure.



Some system channels for general functions can be inserted in a modular table with several levels. The example shows a system channel on the lower level with short field light sockets and soldering stations and on the upper level a system channel with sockets, isolating transformer, data socket etc.





On the back of an adaptable aluminium profile further functions can be attached to the system channel such as accumulator, tool storage, perforated sheet metal plates, rotary table for small articles, device platform etc. Due to the shelf for the soldering iron, the same floats above the table top. The soldering station is installed in the system channel. This creates space and order on the working place.

The shape of the system channel allows also the direct installation on the working place and is, therefore, a useful variant for the energy attachments. The inclined front of the device offers in addition ergonomic advantages for the operator.

Width of table	Width of system channel (TE units)	Order No.
1200mm	1194mm (234 TE)	04.12.1200
1600mm	1594mm (313 TE)	04.12.1600
1800mm	1794mm (352 TE)	04.12.1800
2000mm	1994mm (391 TE)	04.12.2000

The aluminium profile for system channels, adaptable at the back

By means of an aluminium profile which is adaptable at the back additional functional components (order numbers see below) can be fitted to the system channel.

Cross section:

System channel with an aluminium profile, adaptable at the back

Befestigungskralle für Funktionskomponenten Halterung für -Funktionskomponenten rückseitig adaptiertes Aluminiumprofil 20000 1222222222222 **Functional components** Note: indication of height H = bottom edge of functional component to bottom edge of system channel Holder for screwdriver **Tool holder Tool holder** Tin holder for sprays with 5 places with 19 places Ø 55 mm Width = 65mm Width = 150mm Width = 440mm Width = 550mm Depth = 170mm Depth = 50mm Depth = 50mm Depth = 110mm Height = 200mm Height = 240mm Height = 200mm Height = 210mm Order No. 04.12 .001 Order No. 04.12 .002 Order No. 04.12 .003 Order No. 04.12 .004



Holder for soldering iron



Circular storage plate 360° for small items

Storage plate



Perforated sheet metal plate Accessories for perforated sheet metal plates see page 54

Order No. 04.12 .005	Order No. 04.12 .006	Order No. 04.12 .007	Order No. 04.12 .008	
Height = 200mm	Height = 200mm	Height = 200mm	Height = 200mm	
Depth = 220mm	Depth = 320mm	Depth = 310mm	Depth = 10mm	
Width = 65mm	Width = 295mm	Width = 320mm	Width = 540mm	

For system channels in ABZ® tables

Width of table	Order No.
1200 mm	04.12 .1202
1600 mm	04.12 .1602
1800 mm	04.12 .1802
2000 mm	04.12 .2002

🛛 erfi

highlight - the innovative lighting engineering



The erfi lighting engineering sets new standards in function, nonglaring, comfort and design. The light helps decisively to feel well at the working place. With the newly developed system lighting highlight ,we managed to realise an absolutely non-glaring light for the working place. An innovative active light grid creates perfect light. The lamp of different designs is inserted in the system channel and is thus part of the working place. An additional considerable advantage of the highlight lighting technology is the independance of the installation height. Up to 1,40 m height the active light grid guarantees non-dazzle working.

Article	All lamps (without sensolight) are equipped with an On/Off switch.	Power (watt)	TE-units	Order No. fluorescent lamp ballast	electronic
Short Iamps		36 W	95 TE	AL04.1.361	AL04.1.362
single power		55 W	120 TE	AL04.1.551	AL04.1.552
Short Iamps		2 x 36 W	2 x 95 TE	AL04.2.361	AL04.2.362
double power		2 x 55 W	2 X 120 TE	AL04.2.551	AL04.2.552
Long lamps		36 W	250 TE	AL04.3.361	AL04.3.362
single power		58 W	310 TE	AL04.3.581	AL04.3.582
Long lamps		2 x 36 W	250 TE	AL04.4.361	AL04.4.362
double power		2 x 58 W	310 TE	AL04.4.581	AL04. 4.582

erfi-sensolight[®] - the new light dimension

erfi-sensolight stands for a new light dimension (registered design No. 202 05 736 4). Sensolight allows a clear improvement regarding ergonomics and energy consumption. erfi-sensolight is available in 3 different designs.



erfi-sensolight[®] level 1 Contactless switching on / off

The integrated lamp can easily turned on/off without contact. By simply getting closer to the system channel with the hand, the sensor integrated in the system channel switches on or off. The function is so developed that an unintentional switching on / off is avoided.



erfi-sensolight® level 2 Contactless switching on / off and presencedependent turning off (control of presence) The additional sensor for presence guarantees that a short time after leaving the working place the light will be deactivated. The light turns on automatically when coming closer again to the working place. The control of presence also turns off when the on / off sensor will be deactivated.



🖿 erfi

erfi-sensolight[®] level 3 Contactless switching on / off and presence-dependent turning off (control of presence) and daylight control system with dimmer function

The daylight control system guarantees a perfect regulation of light at any hour of the night or day.

1. Dimmer function

By means of a dimmer the desired amount of light can be adjusted.

2. Daylight control system

If the ambient light is enhanced for example by sunshine, the lamp power reduces automatically. If the ambient light is reduced for example at dawn/dusk or by clouds, the amount of light is automatically increased. A regular and pleasant amount of light is thus ensured.

Savings: Particularly with level 2 and 3, considerable reductions in power consumption are guaranteed. Suitable for system channels.

erfi-sensolight[®] level 3 is only possible with the electronic fluorescent lamp ballast.

Article		TE fluorescent	Order No.
erfi-sensolight® level 1	Contactless switching on/off	10 TE	A61.001
erfi-sensolight® level 2	Contactless switching on/off and presence-dependent switching (control of presence)	10 TE	A61.002
erfi-sensolight® level 3	Contactless switching on/off, presence-dependent switching (control of presence) and daylight regulation by dimmer	10 TE	A61.003

Safety and switchgears

Note: Overall height: 113 mm

The insert board programme acto is useable with the following system components:

- System channel
- Energy attachment, energy cockpit
- Swivelling attachment
- 19" combined attachment, 19" combine cockpit

The insert board programme acto® Safety and switchgears (page 30) alternating voltage supplied single-phase and three-phase (page 31-32)

- Socket modules Supply modules
- Non-earthed small alternating voltage
- Non-earthed alternating voltage
- Non-earthed minimum three- phase voltage
- Three-phase modules

Variable alternating voltage supply single-phase (page 33)

- Regulating transformers, non-earthed
- Regulating transformers, earthed

Direct voltage supply (page 34-35)

- Fixed voltage sources
- Regulating power packs, telecontrolable

Function generators (page 36-37)

- Function generators 10 MHz and 20 MHz
- Function generators, telecontrolable

Telecontrol software highlink[®] (page 37) Pneumatic units (page 38)

Energy and accessory instruments

- (page 38-39)
- RC-decades
- R-logades
- Continuity tester
- Soldering station
- Closed circuit network
- Data sockets
- Telephone sockets
- Interfaces
- Empty panels

TE = Teilungseinheit - Division unit 1 TE = 5,08mm



Single-phase Order No. A52.003

NFI switch:	Fault current 30 mA, nominal current 25 A
Motor protection switch:	10-16 A with under- voltage circuit breaker
Phase control lamps:	L1 or L1, L2, L3 resp.





42 TE

Three-phase

Order No. A53.011

Single-phase Order No. A53.001

Emergency shut-off push-button:	with potentialfree contact for connec- tion of a room emer- gency shut-off
NFI switch:	Fault current 30 mA, nominal current 25 A
Motor protection switch:	10-16 A with under- voltage circuit breaker
Phase control lamps:	L1 or L1, L2, L3 resp.



Emergency shut-off push-button:

with potential-free

contact for connection

to an available room

emergency shut-off

	42 TE	1
1		000

Single-phase Order No. A53.008	Three-phase Order No. A53.013
Key-operated circuit closer	
NFI switch:	Fault current 30 mA, nominal current 25 A
Motor protection switch:	10-16 A with un- dervoltage circuit breaker
Phase control lamps:	L1 or L1, L2, L3 resp.



Order No. A51.001



Single-phase Order No. A52.004



Three-phase Order No. A52.005

Key-operated circuit closer	
Emergency shut-off push-button:	with potential-free contact for connection of an available room emergency shut-off
Motor protection switch:	10-16 A with undervolt- age circuit braker
Phase control lamps:	L1 or L1, L2, L3 resp.





Single-phase Order No. A53.014

Three-phase Order No. A53.012

Key-operated circuit closer	
Emergency shut-off push-button:	with potentialfree con- tact for connection of a room emergency shut-off
NFI switch:	Fault current 30 mA, nominal current 25 A
Motor protection switch:	10-16 A with undervolt- age circuit breaker
Phase control lamps:	L1 or L1, L2, L3 resp.





Single-phase Order No. A53.006	Three-phase Order No. A53.007	
Emergency shut-off push-button:	with potentialfree contact for connection of a room emergency shut-off	
Motor protection switch:	10-16 A with undervolt- age circuit breaker	
Phase control lamps:	L1 or L1, L2, L3 resp.	



Order No. A51.002 outsmart-safe by a integrated keyoperated switch



Order No. A51.003 with separate keyoperated circuit closer





Three-phase

Order No. A53.010





Alternating voltage supplies, single-phase

Note: Overall height: 113 mm

Socket modules

- Earthing contact sockets 230 V, 50 Hz, 16 A
- As standard pebble-gray, RAL 7032 (against an extra other colours and models are available)

Without mains switch



Best.-Nr. A11.016





Best-Nr. A12.002



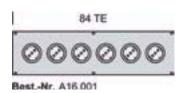
Best.-Nr. A13.00*



Best.-Nr. A14.001



Best.-Nr. A15:001



14TE

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L1, N, PE

Order No. A11.021

3 Safety laboratory

sockets 4 mm,

230 V, 50 Hz, 16 A

Supply modules



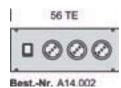
Order No. A11.015 PE 1 Safety laboratory socket 4 mm, 230 V, 50 Hz, 16 A

With mains switch



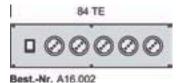


















Order No. A11.024 2 x L1, N, PE 6 Safety laboratory sockets 4 mm, 230 V, 50 Hz, 16 A



Order No. A11.022 CEE socket, 2-pole + PE, 6 h 230 V, 50 Hz, 16 A, with a blue hinged cover

Additional prices

for sockets replaces the standard earthing contact socket (always per piece)



Order No. A1.102 Earthing contact socket 230 V, 50 Hz, 16 A orange



Order No. A1.103 Earthing contact socket with spring cover 230 V, 50 Hz, 16 A pebble-gray, Ral 7032



Order No. A1.105 Earthing contact socket with spring cover 230 V, 50 Hz, 16 A orange



Order No. A1.106 Earthing contact socket Switzerland 230 V, 50 Hz, 16 A (SEV 13) pebble-gray, RAL 7032



Order No. A1.107 Earthing contact socket France 230 V, 50 Hz, 16 A pebble-gray, RAL 7032

Order No. A1.108 Earthing contact socket Italy 230 V, 50 Hz, 16 A pebble-gray, RAL 7032

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Order No. A1.109 Earthing contact socket Great Britain 240 V, 50 Hz, 13 A pebble-gray, RAL 7032





31



Alternating voltage supplies, single-phase and three-phase

Note: Overall height: 113 mm



12 V, 24 V/1 A - 1 illuminated mains switch

- 3 Safety laboratory sockets for supply of

Non-earthed minimum alternating voltage

- non-earthed minimum alternating voltage - 1 thermal safety switch (primary fuse protection)
- 2 thermal-magnetical safety switches (secondary fuse protection)





Non-earthed alternating voltage

- 230 V/max. 0,5 A 115 VA
- 1 illuminated mains switch
- 1 socket without earthing contact for supply of non-earthed alternating voltage
- 1 safety fuse



Non-earthed minimum alternating voltage 6 V. 8 V. 12 V/1 A

- 1 illuminated mains switch
- 4 Safety laboratory sockets for supply of
- non-earthed minimum alternating voltage
- 1 thermal safety switch (primary fuse protection)
- 3 thermal-magnetical safety switches (secondary fuse protection)



Non-earthed alternating voltage

230 V/max. 0,5 A 115 VA

- 1 illuminated mains switch - 2 safety laboratory sockets for supply of

non-earthed alternating voltage

2 x 5 safety laboratory sockets 400/230 V, 50 Hz, 16 A

- 1 safety fuse

Supply module



Best.-Nr. A93.010

Non-earthed minimum alternating voltage 6 V, 12 V, 18 V, 24 V, 36 V, 42 V/ 3 A

- 1 illuminated mains switch

- 4 Safety laboratory sockets for supply of

non-earthed minimum alternating voltage - 1 thermal safety switch (primary fuse protection)

- 3 thermal-magnetical safety switches (secondary fuse protection)



Three-phase module 1 CEE socket. 3 poles + N + PE, 6 h 400/230 V, 50 Hz, 16 A



Best.-Nr. A93.011

Non-earthed minimum alternating voltage

- 2 V, 4 V, 6 V, 8 V, 10 V, 12 V/ 10 A
- 1 illuminated mains switch
- 4 Safety laboratory sockets for supply of nonearthed minimum alternating voltage
- 1 thermal safety switch (primary fuse protection) - 3 thermal-magnetical safety switches
- (secondary fuse protection)



Best-Nr. A12.00*

Best-Nr. A12.020

400/230 V, 50 Hz, 16 A - 5 safety laboratory sockets

- 1 CEE socket, 3 poles + N + PE, 6 h

Three-phase module

L1, L2, L3, N, PE 400/230 V, 50 Hz, 16 A



| Non-earthed minimum three-phase voltage Delta 3 x 17,3 V/150 VA, star 3 x 10 V/5 A – 1 illuminated mains switch – 4 Safety laboratory sockets L1, L2, L3, N for supply

of non-earthed minimum three-phase voltage - 1 thermal safety switch (primary fuse protection) - 3 thermal-magnetical safety switches (secondary fuse protection)



Best-Nr. A12.02*





- 1 illuminated mains switch
- 3 thermal-magnetical safety switches
- 5 safety laboratory sockets L1, L2, L3, N, PE
- 400/230 V, 50 Hz, 15 A

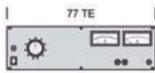






Regulating transformers, single-phase

Note: Overall height: 113



Best.-Nr. A95.010

Output AC:	2 safety laboratory sockets 4 mm
Display:	Moving iron instrument class 2,5, voltage: 0-30 V
	Moving iron instrument class 2,5, current: 0-2 A



Regulating transformer (earthed) 0-260 VAC max. 1 A earthed,

Regulating transformer (unearthed)

o-30 VAC max. 2 A unearthed,

steplessly adjustable, unstabilized

steplessly adjustable, unstabilized

Busic-per, Adm. 0.50		
	Output AC:	Shockproof socket
	Dicalay	Moving iron instrument class

Output AC:	SHOCKPROOJ SOCKEL
Display:	Moving iron instrument class 2,5, voltage: 0-260 V
	Moving iron instrument class 2,5, current: 0-1 A
Note, not useable in	a system channels

Note: not useable in system channels



Regulating transformer (earthed) 0-260 VAC max. 1 A earthed, steplessly adjustable, unstabilized

Best-Nr. A92.030

Output AC: 3 safety laboratory sockets 4 mm (L1, N and PE) Note: not useable in system channels



Regulating transformer (unearthed) 2 – 260 V AC max. 1 A unearthed,

steplessly adjustable, unstabilized

Regulating transformer (unearthed)

2 – 260 V AC max. 2 A unearthed,

steplessly adjustable, unstabilized,

integrated bridge connected rectifier

changeable to: 2-200 V DC by an

Bost -Nr A94 031

Output AC:	3 safety laboratory sockets 4 mm (L1, N and PE)
Display:	Moving iron instrument class 2,5, voltage: 0-260 V
	Moving iron instrument class 2,5, current: 0-1 A

Note: not useable in system channels



Best -Nr. A94 032

Output AC: Socket without earthing contact Output DC: 2 safety laboratory sockets 4 mm Display: Moving iron instrument class 2,5, voltage: 0-260 V Moving iron instrument class 2,5, current: 0-2 A

Note: not useable in system channels and energy

attachments/cockpits of 130 mm depth system

77 TE Best.-Nr. A95.011

Regulating transformer (unearthed)

0-30 VAC max. 2 A unearthed, steplessly adjustable, unstabilized, changeable to: 0-24 VDC, residual ripple approx. 50 % by an integrated bridge connected rectifier

	connected rectifier	
Output AC/DC:	2 safety laboratory sockets 4 mm	
Display:	Moving iron instrument class 2,5, voltage: 0-30 V	

Moving iron instrument class 2,5, current: 0-2 A



Regulating transformer (unearthed)

0-24 VAC max. 4 A unearthed, steplessly adjustable, unstabilized, changeable to: 0-19 VDC, residual ripple approx. 50 % by an integrated bridge connected rectifier

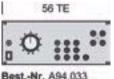
Output AC/DC:	2 safety laboratory sockets 4 mm
Display:	Moving iron instrument class 2,5, voltage: 0-30 V
	Moving iron instrument class 2,5, current: 0-4 A



Regulating transformer (unearthed)

AC: 2-260 VAC max. 1 A unearthed, steplessly adjustable, unstabilized DC: 2-200 V DC unscreened, residual ripple approx. 50 % by an integrated bridge connected rectifier

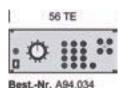
Output AC:	3 safety laboratory sockets 4 mm (L1, N and PE)	
Output DC:	2 safety laboratory sockets 4 mm	
Note: not useable in system channels		



Regulating transformer (unearthed/earthed)

steplessly adjustable voltages, unstabilized AC: 10-12 V AC max. 12 A unearthed AC 2: 0 – 24 V AC max. 6 A unearthed AC3: 2 – 260 V AC max. 2 A

Output AC 1+2:	2 safety laboratory sockets 4 mm each	
Output AC 3:	3 safety laboratory sockets 4 mm (L1, N and PE)	
Bridge connected rectifier:	built-in for external wiring	
Note: not useable in system channels and energy		
attachments/cockpits of 130 mm depth		



Regulating transformer (unearthed/earthed)

steplessly adjustable voltages, unstabilized AC 1: 0 - 6 V AC max. 15 A unearthed AC 2: 0 - 18 V AC max. 6 A unearthed, AC3: 0 – 42 V AC max. 3 A earthed AC 4: 2 – 260 V AC max. 2 A earthed

Output AC 1-3:	2 safety laboratory sockets 4 mm each	
Output AC 4:	3 safety laboratory sockets 4 mm (L1, N and PE)	
Bridge connected rectifier: built-in for external wiring		
Note: not useable in system channels and energy		
attachments/cockpits of 130 mm depth		

Note: All regulating transformers are equipped with 1 thermal (primary) and thermal-magnetical (secondary) over-current releases and 1 illuminated power switch.

Direct-current supplies / Solid voltage sources

Note: Overall height: 113 mm

*Technical Data lengthwise regulated supply units:

Output data	Voltage	5 V	5 V	12 V	12 V	15 V	15 V
	Current	1 A	3 A	1 A	2 A	1 A	2 A
Deviation	Change of voltage	20 mV	20 mV	50 mV	80 mV	50 mV	80 mV
	load 0-100 %						
Residual ripple	Voltage with	0,5 mVeff					
	nominal load						
Settling time	Load bounce from						
	0 % to 100 %		15 µs				

	42 TE	1
	** .	1
0	•• <u> </u>	
Be	st-Nr. A23.0	60

56 TE

Best-Nr. A24.051

-

Tracking supply unit 3 to +/- 15 V/1 A and 5 V/1 A

lengthwise reglated supply unit*

protection records	
Output data:	permanently resistant to sustained short circuit, lengthwise regulated, switchable in series and parallel
Outputs:	4 mm safety laboratory sockets



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35 TE		56 TE	
Dee Best-Nr. A22.050	<i>Solid voltage source</i> 5 V/3 A lengthwise regulated supply unit*	Best-Nr. A24.0	Solid voltage source ±5 V/3 A lengthwise reglated supply unit*
Output data:	resistant to sustained short circuit, lengthwise regulated, switchable in series and parallel	Output data:	permanently resistant to sustained short circuit, lengthwise regulated, switchable in series and parallel
Outputs:	4 mm safety laboratory sockets	Outputs:	4 mm safety laboratory sockets

42 TE	Solid voltage source 24 V/1,5 A clock-actuated supply unit
Dee Best-Nr. A23.0	Technical data clock-actuated supply unit: Output specification: Deviations - Input voltage change: +/- 0,2% max. - Change of load: +/- 0,8 % max. General specification: Temperature coefficient: +/- 0,01 % /C°
Output data:	permanently resistant to sustained short circuit, switch- able in series and parallel
Outputs:	4 mm safety laboratory sockets

63 TE

		Solid voltage source 2 x 12 V/2 A switchable parallel and in series
Best-Nr.	A24 052	resp. lengthwise reglated supply unit*
Output de	ata:	permanently resistant to sustained short circuit, switchable in series and parallel
Outputs:		4 mm safety laboratory sockets

Output data: permanently resistant to sustained short circuit, switchable in series and parallel 4 mm safety laboratory sockets Outputs: 63 TE Solid voltage source 2 x 15 V/2 A switchable parallel and in series resp. ... 000 lengthwise reglated supply unit* Best.-Nr. A24.053 Output data: permanently resistant to sustained short circuit, lengthwise regulated, switchable in series and parallel Outputs: 4 mm safety laboratory sockets

Solid voltage source

24 V/5 A (10 A peak) clock-actuated supply unit

ing-on

Technical data clock-actuated supply unit:

Power factor and harmonic wave improvement as per EN61000-3-2 Load stabilization: 192 mV max. - Residual ripple and noise: 360 Mv max.

Double nominal peak power when switch-

70 TE

	0
0.8.8	0
Best-Nr. A25.050	

3	<i>Solid voltage source</i> ±/- 12 V/1A and 5 V/3 A lengthwise regulated supply unit*
	ly resistant to sustained short circuit, in series and parallel
	and the second state of a design of the second state of the second

Output data:	permanently resistant to sustained short circuit, switchable in series and parallel
Outputs:	4 mm safety laboratory sockets 1 shockproof socket 230 V / 16 A in addition
Note: not useable	e in system channels

70 TE



Solid voltage source ±15 V/1 A and 5 V/3 A

lengthwise regulated supply unit*

BestNr. A25.051	
Output data:	permanently resistant to sustained short circuit, lengthwise regulated, switchable in series and parallel
Outputs:	4 mm safety laboratory sockets 1 shockproof socket 230 V/16 A in addition
Note: not useable in system channels	

Telecontrollable regulating supply units

with integrated interface at the front, ramp generator and device software highlink® and LabVIEW device drivers resp. (see page 37, to be ordered separately) Note: Overall height: 113 mm

Technical Data:

Interface:	addressable serial interface RS-232	
Ramp generator:	for any voltage curves	
Ramp parameters:	initial and final voltage, speed, time per ramp	
	step, number of cycles	
Operation:	manual or remote controlled	
Bidirectional function	ion: output voltage and current limitation	
	programmable, actual measured value transfer	
	of current and voltage via interface	
Plug and Play:	automatic recognition of device type by	
	highlink® software or LabVIEW device driver	
	(option)	
Output data:	permanently resistant to sustained short	
	circuit, lengthwise regulated, switchable in	
	series and parallel	

Deviation in case of load changes of 0 to 100 %		
	Voltage:	2 mV/A
	Current:	0,02 mA/V
Temperature coeffi	cient:	
	Voltage:	0,005 %/K
	Current:	0,013 %/K
Residual ripple:		
	Voltage:	0,2 mV_{eff}
	Current:	0,5mA _{eff}
Stabilization time in case of a load bounce of		
	0 % to 100 %:	15 µs
	100 % to 0 %:	500 µs
Outputs:	4 mm safety laboratory	y sockets

Current

0-2 A

0-1 A

0-2 A

0-2 A

🖿 erfi



Analoganzeige



Digitalanzeige



Analoganzeigen



Digitalanzeigen





Analoganzeigen

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Digitalanzeigen



Analoganzeigen



Digitalanzeigen

Single regulation supply unit

- 1 common analog or digital display resp. for voltage and current - with double scale,

Voltage

0-15 V

0-30 V

0-30 V

0-30 V

reversible

Single regulation supply unit

- OUTPUT-OFF function

0-30 V	0-2 A	digital	A23.F015
Voltage	Current	Display V/A	Order No.
	0-2 A	analog	A23.F020
0-15 V		digital	A23.F021
0.201/	0-1 A	analog	A23.F022
0-30 V	0-1A	digital	A23.F023

analog

digital

Display V/A

Display V/A

Order No.

A23.F010

A23.F011

A23.F012

A23.F013

A23.F014

A23.F024

A23.F025

reversible

analog

digital

analog

digital

analog

Multiple regulation

- supply unit
- per channel 1 common analog or digital display resp. for voltage and current
- with double scale, reversible
- OUTPUT-OFF function

Multiple regulation supply unit

- per channel 1 common analog or digital display resp. for voltage and current
- OUTPUT-OFF function

Voltage	Current	reversible	Order No.	
	240.24	analog	A27.F010	
2 x 0-15 V	2 x 0-2 A	digital	A27.F011	
	24014	analog	A27.F012	
2 X O-30 V	2 x o-30 V 2 x o-1 A	digital	A27.F013	
		analog	A27.F014	
2 x 0-30 V	2 x 0-2 A	digital	A27.F015	

Voltage	Current	Display V/A	Order No.	
2 1 2 15 1/	22024	analog	A27.F020	
2 x 0-15 V	2 x 0-2 A	digital	A27.F021	
2 x 0-30 V		analog	A27.F022	
	2 x 0-1 A	digital	A27.F023	
		analog	A27.F024	
2 x 0-30 V	2 x 0-2 A	digital	A27.F025	

- 1 analog or digital display resp. each for voltage and current

- with double scale, reversible
- OUTPUT-OFF function

Telecontrollable functional generators inclusive counters

Note: Overall height: 113 mm

erfi is the first manufacturer of laboratory furniture systems for electric engineering and electronics who presents telecontrollable 19" functional generators and 19" regulating supply units in connection with a modern network software (highlink) in professional working place systems. Another proof of the innovative leadership of erfi. The completely newly developed functional generator family offers an excellent functionality and parameters such as remote



control by means of a modern software, large frequency range up to 20 MHz, amplitudes up to 30 Vss and frequency counters of up to 100 MHz.This new generator generation meets all requirements one can think of. Multi-lingual menu technique in connection with elegant rotary encoders and the new "Comand" function keys are a special feature of this generator class. New portalecasing render the device programme acto even independent of the relevant working place.



The new graphic display of vacuum fluorescent technique allows perfect reading even at a distance of 3 m, independently of the reading angle! The display is in blue and has a high focus and brilliance.

Order No.	Size	Design
A34.020	56TE	0,1Hz – 20MHz, 20 V_{ss} , Counter up to 30 MHz
A34.021	56TE	0,1Hz – 10MHz, 30V _{ss} , Counter up to 30 MHz
A34.022	56TE	0,1Hz – 20MHz, 20 V_{ss} , Counter up to 30 MHz
A34.023	56TE	0,1Hz – 10MHz, 30V _{ss} , Counter up to 30 MHz
A34.050	-	Amplifier approx. 20dB, DC

- telecontrollable by RS232 or USB2.0 interface (options)

- comprehensive control software highlink (option) or LabVIEW device driver (option)
- innovative menu-driven commutation with modern graphic display in blue colour
- Comand function keys for a fast access to main functions
- elegant rotary encoder for a comfortaable menu control
- excellent frequency range up to 20 MHz
- 8-digit frequency counter up to 100 MHz

e algie negacitej	
Display:	graphic display of vacuum fluorescent technique, blue
Menu language:	reversible German / English
Operation concept:	elegant rotary encoder with push function as well
	as Comand function keys for optimal handling
Functions:	sinus, delta, rectangle, saw tooth, ramp
	operation, amplifier, DC, individual impulse,
	variable pulse-duty factor
Operation modes:	unsolicited, external wobbling, internal wob-
	bling (sweep operation), PWM operation
Frequency range:	0,1 Hz-20 MHz or models A34.020 and A34.022
	0,1 Hz-10 MHz for models A34.021 and A34.023
Amplitude:	0-20 Vss for models A34.020 and A34.022
	o-30 Vss for models A34.021 and A34.023
Amplifier:	aprox. 20dB amplification, DC, order No. A34.050
Individual impulse:	variable, positive impulse with release by a key,
	adjustable impulse length
Outputs:	$20V_{_{SS}}$ no-load operation for models A34.020 and
	A34.022
	$30V_{ss}$ no-load operation for models A34.021 and
26	A34.023



USB Port 2.0 interface (at the front, option)

RS232 serial interface (at the front, option)

	5V TTL-compatible, 50Ω-output impedance
Inputs:	Ext,Ub,m OWM PWM In, VCO In,
	reductor: 0-30 dB continuous,
	in addition 20dB and 40dB
	connectable through the same socket
DC offset:	-10 to +10V, oV with push-button
Wobble operation	external:
VCO input:	o-5 V control voltage input for frequency change
	of max. 1:100
Wobble operation	, internal: Sweep operation, start and stop frequency,
	wobble frequency: max. 100 Hz in 1Hz steps
PWM operation:	
Control input:	-2,5 V to +2,5 V control voltage input
	for pulse-pause ratio
Frequency counter	** *
Measuring range:	0,1 Hz to 30 MHz for models A34.020 and A34.021
	o,1 Hz to 100 MHz for models A34.022 and A34.023
Input:	external, BNC socket
Input voltage:	0,5 V_{eff} to 100 V_{eff}

2 x 16 Digits

Display:

Telecontrol operation for functional generators and counter operation (option)

Due to the interfaces available as an optionally (serial RS232 or USB2.0) the new functional generators are useful for everything. The telecontrol allows the programming of the functional generators and of the integrated counter. This functionality makes it possible to use the new functional generator family for automated measuring and regulating. The telecontrollable functional generators have been developed for the industrial use as well as for the didactic training centre. They are an ideal and in our times modern tool with many valuable functions.

Interfaces: (option)

Order No.	Design
A34.020.01	serial interface RS232 (option),
alternatively:	
A34.020.02	USB2.0 interface (option)

Note:

When ordering the interface A34.020.01 or A34.020.02, please order also the highlink® software A34.020.10 or the LabVIEW device driver A34.020.11.

The software "highlink" or the "LabVIEW device driver", both available as an option, allow the comfortable access to the device.

The following parameters are programmable with limits by means of the optional interfaces (RS232 or USB2.0):

- Selection of the operation mode:

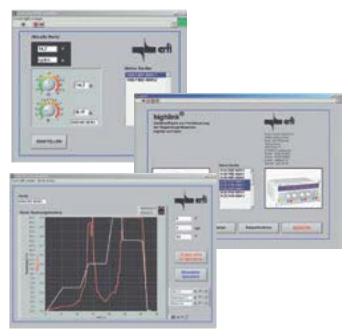
	unsolicited, external wobbling, in-
	ternal wobbling (sweep operation),
	PWM operation
- Functions/curves:	sinus, delta, rectangle, saw tooth, ramp
	operation, amplifier, DC, individual
	impulse, variable pulse-duty factor
- Frequency:	0-20 MHz or 0-10 MHz resp.
- Amplitude:	$o-20V_{ss}$ or $o-30V_{ss}$ resp.
- DC-Offset:	-10V to +10V
- Reductor:	o-30dB, 20dB and 40dB
- Sweep parameter:	start and stop frequency,
	wobble frequency
- Counting frequency:	can be read

highlink[®] - software and LabVIEW device driver (option)

Order No.	Design	
A34.020.10	highlink [®] - software for functional generators	
	and for regulating supply units	

highlink[®] – software:

This innovative software package allows the programming of telecontrollable parameters of the erfi functional generators (see above) as well as the parameters of the telecontrollable erfi regulating supply units (see page 35) due to the user-friendly operating panel. Virtual transformers and input spaces ensure an optimal and rational handling for telecontrol operation. highlink® is a registered trademark and allows in addition the data logging of the generators and supply units. Programmable ramps by means of supply units are also possible through table functions. (See page 35 and the separate catalogue "Telecontrollable supply unit generation highlab and basic). Consequently, highlink[®] is the decisive step to link groups of devices and working places. Complete laboratories and individual devices can be telecontrolled in a modern way. highlights such as the plug-and-play function ensure that each connected and active device is automatically recognized. A comfort unattainable in the past, joined with perfect functionality.



LabVIEW device drivers

The erfi device drivers are ideally suited for all developers using the development tool LabVIEW.

The individual functions of the erfi functional generators and erfi supply units (see page 35) are summarized in libraries and can easily be incorporated in the project concerned.

Order No.	Design:	
A34.020.11	LabVIEW device driver for erfi	
	functional generators	
A34.020.12	LabVIEW for erfi regulating	
	supply units (see page 35)	

Pneumatic units / energy and accessory devices

Note: Overall height: 113 mm



Best.-Nr. A72.010



Best.-Nr. A72.011

Pneumatic supply

- Output pressure for coupling 1 and 2: 0 to 3 bar and 0 to 10 bar resp., continuously adjustable, pressure reducer with fixing device and excess pressure protection
- Output pressure for coupling 3: direct taking-out of the input pressure
 Output: All 3 coupler sockets
- KD 1/8 with automatic shut-off
- Input: at the back for a hose of
 6 mm inside diamter



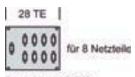
Best-Nr. A71.00*

Compressed air outlet

Compressed air inlet: at the back for a hose of 6 mm inside diameter Compressed air outlet: air-operated coupling with automatic shut-off DN5 Operating pressure: max. 10 bar



Best.-Nr. A11.040



Best.-Nr. A12.040

Bus coupler field

Allows the drive of several supply unit and functional generators by a PC. In connection with the device driver highlink, all connected devices can be safely controlled by a PC. (A condition herefore: highlink® software)

- 1 serial connection at the front for PC (RS232 adressable)
- 4 or 8 pcs. resp. serial connections at the front for 4 or 8 telecontrollable erfi devices, completely interlinked at the back.



RC-decade

Combination device with integrated R and C decade for the experimental finding-out of resistance and capacity values.

Discharge switching:	Resistance range: 1 Ohm to 999,999 kOhm in steps of 1 Ohm
Precision:	= ± 1% above 40 Ohm
	= $\pm 4\%$ from 40 Ohm to 13 Ohm
	= ± 6 % from 12 Ohm to 3 Ohm
	= ± 10 % with 2 Ohm and 1 Ohm
Current-carrying	max. 1W
capacity:	
Voltage:	max. 250 V (50 Hz)
Capacity range:	100 pF to 9.9999 μF in steps of 100 pF
Precision:	= ± 2 % above 1nF
	= ± 10 % from 1 nF to 100 pF

28 TE

00

Best-Nr. A12.050

RC Logade



Best-Nr. A11.050

L-Logade

For the experimental finding-out of inductivity values with testing and experimenting circuits. The inductivity can be adjusted by a rotary-type switch.

Resistance range:	100 Ohm to 680 kOhm series E 6
Tolerance:	± 2 %
Current-carrying capacity:	max. 0,5 W
Voltage:	max. 400 V DC
Capacity range:	100 pF to 680 nF series E 6
Tolerance:	± 10 %
Voltage:	max. 250 V DC

Range of values:	1 µH to 4700 µH, graded as per series E 6 (23 values)	
Precision:	1 μH to 33 μH +- 10 %	
	47 μH to 4800 μH +- 5 %	
Operating voltage:	max. 1000 V DC	
Operating current:	max. 63 mA, with a fine fuse protection	

Energy and accessory devices / others / empty panels

Note: Overall height: 113 mm

28 TE	Continuity tester, optical and acoustical optical by a green luminous field for resistances of low impedance, acoustival by a loudspeaker for resistances of high impedance	
Connection:	2 pcs. 4 mm safety laboratory sockets for optical testing, 2 pcs. 4 mm safety laboratory sockets for acoustical testing	
Electric strength:	up to approx. 400 V AC with acoustical continuity testing	_
Testing voltage:	aprox. 24 V AC with optical continuity testing	



Best.-Nr. A13.060

Solder station 80 Watt with digital indication

l erfi

Scope of supply inclusive solder pencil WSP 80 and holder WPH for WSP 80

- electronic regulating electronics
- temperature range 50° C to 450° C, adjustable by keys
- 3-digit digital indication for nominal and set value
- tolerance \pm 2 % of the final value
- automatic tool recognition

Ring circuit panel

- external input device (WCB1/WCB2, optional) canbe connected for time and locking positions.
- equipotential bonding (in initial state tightly earthed)

- 6 pcs. 4 mm safety laboratory sockets, flat plug

for connection of ring circuits, not wired



Ring circuit panel

6 pcs. 4 mm safety laboratory sockets with 6,3 mm flat plug for connection of ring circuits, not wired

Best-Nr. A11.01*



Data socket 1 Data socket RJ45, double socket Cat 6, not wired



Best.-Nr. A12.030

Best-Nr. A11.06C

21 TE

- 3 pcs. BNC sockets, not wired

Telephone socket 1 telephone socket TAE 6 N, triple, not wired



Interface panels



Best.-Nr. A10.00*

2 pcs. PS2 sockets for keyboard and mouse, inclusive connection cable



Best.-Nr. A10.002

2 pcs. USB sockets, inclusive connection cable



Best-Nr. A10.003

2 pcs. SubD sockets, 9 poles, male, inclusive connection cable



Best.-Nr. A10.004

1 pc. SubD socket, 25 poles, female, inclusive connection cable



Best.-Nr. A10.005

2 pcs. stereo jack bushes 3,5 mm inclusive connection cable

Empty panels

Width	Order No.
14 TE	A01.010
28 TE	A02.010
42 TE	A03.010
56 TE	A04.010
70 TE	A05.010
84 TE	A06.010



Energy attachments and energy cockpits, compact and modular

The energy attachments and energy cockpits are the most economic solution for technology, a lot of measurements can the basic equipment of an electronic working place.

acto. With this attachment and cockpit be realised.

In the front they all have a 19 inch rail to take up the 19 inch insert board programme



Energy attachment 130 mm deep, 153 mm high

Width of	Equipment	
table (mm)	capacity	Order No.
1200	228	04.13.1201
1600	307	04.13.1601
1800	346	04.13.1801
2000	386	04.13.2001



Energy attachment 320 mm deep, 153 mm high

Width of	Equipment	Order No.	
table (mm)	capacity		
1200	228	04.13.1202	
1600	307	04.13.1602	
1800	346	04.13.1802	
2000	386	04.13.2002	

Energy attachments and energy cockpits, compact and modular

The energy cockpits are directly adapted to the rear aluminium leg system and are steplessly adjustable in height. They are either available as independent unit or combined with a system channel which is installed underneath.



Energy cockpits 130 mm deep, 153 mm high

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Width of	Equipment	Order No.
table (mm)	capacity	order No.
1200	228	04.13.1203
1600	307	04.13.1603
1800	346	04.13.1803
2000	386	04.13.2003



Energy cockpits 320 mm deep, 153 mm high

Width of	Equipment	Order No.
table (mm)	capacity	order No.
1200	228	04.13.1204
1600	307	04.13.1604
1800	346	04.13.1804
2000	386	04.13.2004





Energy cockpits can also be directly mounted on system channels.

Absolutely flexible, the 19" device attachments

The 19" device attachments are available of overall heights of 3HE and 6HE and are suited for the professional integration of the 19" devices basic and highlab resp.



19" / 3 HE device attachment,			
straight front			
Attachment depth:	Attachment depth: 360 mm		
Attachment height	Attachment height: 183mm		
Attachment width: as per width of table			
Width of table (mm)	Equipment capacity	Order No.	
1200	224TE/3HE	04.14.1201	
1600	303TE/3HE	04.14.1601	
1800	342TE/3HE	04.14.1801	
2000	382TE/3HE	04.14.2001	

As a standard the attachments are equipped with a professional 19" installation mechanism and thus guarantee also the possibility of properly installing 19" devices of another make.



19" / 3 HE device attachment,		
10° inclination of front		
Attachment depth:	360mm	
Attachment height: 227mm		
Attachment width:	as per width of table	
Width of table (mm)	Equipment capacity	Order No.
1200	224TE/3HE	04.14.1202
1600	303TE/3HE	04.14.1602
1800	342TE/3HE	04.14.1802
2000	382TE/3HE	04.14.2002



19" / 6 HE device attachment, straight front Attachment depth: 360mm

Attachment deptil.	50011111
Attachment height:	316mm
Attachment width:	as per width of table

Equipment capacity	Order No.
224TE/6HE	04.14.1203
303TE/6HE	04.14.1603
342TE/6HE	04.14.1803
382TE/6HE	04.14.2003
	capacity 224TE/6HE 303TE/6HE 342TE/6HE

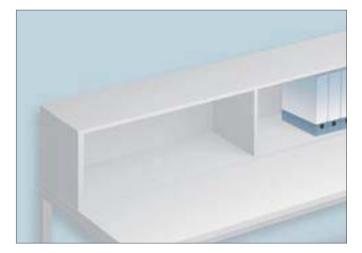


19" / 6 HE device at	tachment,	
10° inclination of fre	ont	
Attachment depth: 360mm		
Attachment height: 360mm		
Attachment width: as per width of table		
Width of table (mm)	Equipment capacity	Order No.
1200	224TE/6HE	04.14.1204
1600	303TE/6HE	04.14.1604
1800	342TE/6HE	04.14.1804
2000	382TE/6HE	04.14.2004

The DINA 4 – cockpits – functional and versatile

The DINA 4 attachments and DINA 4 cockpits have an inside height of 330 mm and are therefore ideally suited for holding A4 files. Between a 19 "/6 HE device cockpit and a DINA 4 cockpit there is a

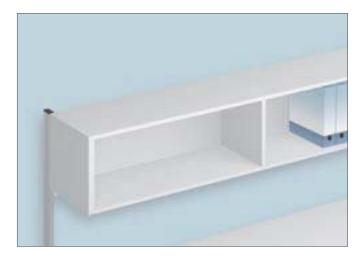
difference in height of 54 mm. With linear table combinations the 19" device cockpit and the DINA 4 cockpit are flush at the top.



DINA 4 – attachment

The partition wall in the middle allows a high load on the top.

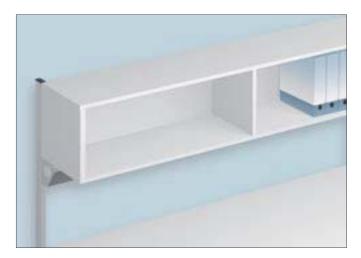
Width of table (mm)	Order No.
1200	04.15.1201
1600	04.15.1601
1800	04.15.1801
2000	04.15.2001



DINA 4 - cockpit with a steel frame fitted underneath

Due to the third level additional working space is created. The cockpit rests on a solid and welded steel frame and allows high loads. By connecting the cockpit to the back of the aluminium leg system profile, it is steplessly adjustable in height.

Width of table (mm)	Order No.
1200	04.15.1202
1600	04.15.1602
1800	04.15.1802
2000	04.15.2002



DINA 4 - cockpit for a system channel fitted undeneath

This type of cockpit allows the combination with the insert board programme acto. The system channel serves as highly solid support of the cockpit as well as for the installation of the insert board programme acto. Lamps, sockets, data sockets, safety and switching units etc. can be selected. (System channels see page 26-29, insert board programme acto see page 30-39).

Width of table (mm)	Order No.
1200	04.15.1203
1600	04.15.1603
1800	04.15.1803
2000	04.15.2003

Modern and ergonomic, the 19"/3 HE device cockpits

A professional work organisation is a prereuquisite everywhere. With the newly developed cockpit modules ABZ offers a great variety. The freely suspended device cockpit was already presented and launched on the market by erfi as forerunner in the electronic industry.



19" / 3 HE device cockpit,
straight front, with a steel frame fitted underneath
Depth of cockpit: 360mm
Height of cockpit: 183mm
Width of cockpit: as per width of table
Top edge of cockpit: 1600mm

Width of table (mm)	Equipment capacity	Order No.
1200	224TE/3HE	04.16.1201
1600	303TE/3HE	04.16.1601
1800	342TE/3HE	04.16.1801
2000	382TE/3HE	04.16.2001

The result of the consistent further development of these ergonomic system components are the overall height and the desing of the front. The device cockpits are mounted to the rear aluminium system profiles.



19" / 3 HE device cockpit,
straight front, suitable for a steel frame fitted underneath
Depth of cockpit: 360mm
Height of cockpit: 183mm
Width of cockpit: as per width of table
Top edge of cockpit: 1600mm

Width of table (mm)	Equipment capacity	Order No.
1200	224TE/3HE	04.16.1202
1600	303TE/3HE	04.16.1602
1800	342TE/3HE	04.16.1802
2000	382TE/3HE	04.16.2002



19" / 3 HE device cockpit,

front inclined by 10°, with a steel frame fitted underneath

Depth of cockpit: 360mm Height of cockpit: 227mm Width of cockpit: as per width of table Top edge of cockpit: 1600mm

Width of table (mm)	Equipment capacity	Order No.
1200	224TE/3HE	04.16.1203
1600	303TE/3HE	04.16.1603
1800	342TE/3HE	04.16.1803
2000	382TE/3HE	04.16.2003



19" / 3 HE device cockpit, front inclined by 10°, suitable for a steel frame fitted underneath Depth of cockpit: 360mm

Height of cockpit: 227mm Width of cockpit: as per width of table Top edge of cockpit: 1600mm

Width of table (mm)	Equipment capacity	Order No.
1200	224TE/3HE	04.16.1204
1600	303TE/3HE	04.16.1604
1800	342TE/3HE	04.16.1804
2000	382TE/3HE	04.16.2004



The 19"/6 HE device cockpits offer sufficient space for highperformance and voluminous devices. Big 19" devices of the series high-lab, basic and CANclass as well as all 19" standardized other makes can be elegantly integrated:

- AC regulating and isolating transformers



19" / 6 HE device cockpit,

straight front, with	a steel frame fitted underneath
Depth of cockpit:	316mm
Height of cockpit:	316mm
Width of cockpit:	as per width of table
Top edge of cockpit:	1600mm

Width of table (mm)	Equipment capacity	Order No.
1200	224TE/6HE	04.17.1201
1600	303TE/6HE	04.17.1601
1800	342TE/6HE	04.17.1801
2000	382TE/6HE	04.17.2001

- high-current supply units
- high-voltage testers
- isolation testers
- protective conductor testers
- leakage current testers etc.



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19" / 6 HE device cockpit,straight front, suitable for a steel frame fitted underneathDepth of cockpit:316mmHeight of cockpit:316mmWidth of cockpit:as per width of tableTop edge of cockpit:160mm

Width of table (mm)	Equipment capacity	Order No.
1200	224TE/6HE	04.17.1202
1600	303TE/6HE	04.17.1602
1800	342TE/6HE	04.17.1802
2000	382TE/6HE	04.17.2002



19" / 6 HE device cockpit,

front inclined by 10°, with a steel frame fitted underneath

Depth of cockpit: 360mm Height of cockpit: 360mm Width of cockpit: as per width of table Top edge of cockpit: 1600mm

Width of table (mm)	Equipment capacity	Order No.	
1200	224TE/6HE	04.17.1203	
1600	303TE/6HE	04.17.1603	
1800	342TE/6HE	04.17.1803	
2000	382TE/6HE	04.17.2003	



19" / 6 HE device cockpit, front inclined by 10°, suitable for a steel frame fitted underneath Depth of cockpit: 360mm Height of cockpit: 360mm Width of cockpit: as per width of table Top edge of cockpit: 1600mm

Width of table (mm)	Equipment capacity	Order No.
1200	224TE/6HE	04.17.1204
1600	303TE/6HE	04.17.1604
1800	342TE/6HE	04.17.1804
2000	382TE/6HE	04.17.2004

ABZ[®] - liftline – variable working heights due to the professional clamp connection, alternatively by a crank adjustment or an electric drive resp.





A study has proven that almost 70 % of staff members who had a working place with an integrated height adjustment for a period of three months said that their



Technical Data of manual height adjustment

100 mm from 780 mm up to 880 mm or

200 mm from 780 mm to 980 mm	
or	

300 mm from 780 mm up to 1080 mm or

400 mm from 780 mm up to 1180 mm Adjustment: By unscrewing the clamping screws at all 4 table legs. Interior second pipe in the leg can be extended steplessly.

(*) Other strokes deliverable on request.

Stroke	Order No.
100mm	04.18.100
200mm	04.18.200
300mm	04.18.300
400mm	04.18.400

well-being improved considerably during this time or that health problems were reduced. And almost all participants namely 92 % realized that the change



Technical data of crank drive Stroke: 300 mm from 780 mm up to 1080 mm or 400 mm from 780 mm up to 1180 mm load on table 220 kg maximum, 350 kg (alternatively) Lifting speed: approx. 5 mm per turn of the crank (*) Drive: 4 hydraulic cylinders integrated in the legs, with pump and crank, can be folded down. The crank being folded-in disappears completely underneath the work top. Radius of crank: 125 mm

(*) The lifting speed may slightly vary depending on the load on the table.

Stroke	Load on table	Order No.
300mm	220 kg	04.18.301
300mm	350kg	04.18.302
400mm	220kg	04.18.401
400mm	350kg	04.18.402

between a sitting and a standing position was of advantage.



Technical data of electric drive:

Stroke: 280 mm from 780 mm up to 1060 mm or 380 mm from 780 mm up to 1160 mm Load on table:

220 kg maximum, 350 kg (alternatively) Lifting speed:

> approx. 30 mm/s with a load on table of 220 kg approx. 15 mm/s with a load on table of 350 kg

Drive: 4 Hydraulikzylinder in Füße systemadäquat integriert, mit Pumpe und Elektromotor, Sicherung vor Überlast inkl.

Note regarding duty cycle: The drive is designed for permanent operation. When using the maximum load, the drive needs a break of approx. 20 min. after 1 min. running. It is protected against overload by a temperature switch.

Stroke	Load on table	Order No.
280mm	220 kg	04.18.281
280mm	350kg	04.18.282
380mm	220kg	04.18.381
380mm	350kg	04.18.382

Stroke:

Assembly trolleys

	Basic equipment:
Work top and shelves:	Plastic with an angular iron frame,
	shelf with a rounded-off edge of 5 mm
Steel frame:	Profile pipe 30x2 mm, 4 steerings wheels 75 mm
	Ø, 2 of them lockable, loading capacity 150 kg
Drawer:	Steel, with organizational elements, usable
	depth 490 mm, partially extendable
Locking:	Safety cylinder for individual and central
	locking, general locking system on request
Size:	490 x 600 x 780 mm high
Selection of pattern:	See page 10-11
Conductive design	Wheels, top board, base, drawers
as an alternative:	of conductive design

Additional price for full drawer extension: Order No. 04.19.0020



Assembly trolley: 1 Dawer, front height 3 HE with single extension 2 Shelves Not conductive design: Order No. 04.19.0003 Conductive design: Order No. 04.19.0004



Assembly trolley: 2 Dawers, front height 3 HE with single extension 1 Shelf Not conductive design: Order No. 04.19.0005 Conductive design: Order No. 04.19.0006



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Assembly trolley: 1 Dawer, front height 3 HE with single extension 1 Shelf Not conductive design: Order No. 04.19.0001 Conductive design: Order No. 04.19.0002



Assembly trolley: 2 Dawers, front height 3 HE with single extension 1 Drawer, front height 5 HE with full extension Not conductive design: Order No. 04.19.0007 Conductive design: Order No. 04.19.0008

Side tables with a shelf

4 different side tables are available for designing and completion of working places. On request, shelves can be set back.

Basic equipment:

Table top:	approx. 30 mm thick, with a plastic banding all around
Steel frame:	Profile pipe 40 x 2 mm, solidly welded with welded-on legs
Shelves:	Laminated on both sides, welded-in angular profiles
Sliding doors:	Suspended design placed on roller bearings, made of plastics
Locking:	Safety cylinder, individual locking, main locking system. on request
Selection pattern:	See page 10-11
Conductive design:	For conductive side tables the work top is volume conductive. All other components such as shelves and cabinets with sliding doors are not conductive of this design. On rquest, all components are available as



Type 20.1 Standard Type 20.2 Conductive design

Movable

All side tables can be completed by steering wheels. For the types 20.1 and 20.2 a reinforcement of the bottom frame will be necessary. On request, movable tables can be equipped with lateral handles.

conductive design.





Typ 20.3 Standard Typ 20.4 Conductive design



Typ 20.5 Standard Typ 20.6 Conductive design



Typ 20.7 Standard Typ 20.8 Conductive design

Options:

Reinforced bottom frame	At the side and back for tables type 20.1 and 20.2	04.20.9001
Reinforced bottom frame	At the side and back for tables type 20.1 and 20.2	04.20.9002
V2A glider	for EGB table instead of discharge connection	04.20.9003
Steering wheels	ø 100 mm, 2 of them fixable, standard	04.20.9004
Steering wheels	ø 100 mm, 2 of them completely fixable, standard	04.20.9005
Steering wheels	ø 100 mm, 2 of them completely fixable, EGB	04.20.9006
Steering wheels	ø 125 mm, 2 of them completely fixable, standard	04.20.9007
Steering wheels	ø 125 mm, 2 of them completely fixable, EGB	04.20.9008
Fixation for steering wheels	ø 100 mm	04.20.9009
Complete fixation for steering wheels	ø 100 mm and Ø 125 mm	04.20.9010
Handle	at the left or right (please indicate in your order)	04.20.9011

Type of table	Width of table	Design	Order No. Depth 400	Order No. Depth 600	Order No. Depth 800	Order No. Depth 900	Order No. Depth 1000
20.1	800	Standard	04.20.1084	04.20.1086	04.20.1088	04.20.1089	04.20.1081
	1000		04.20.1104	04.20.1106	04.20.1108	04.20.1109	04.20.1101
	1200		04.20.1124	04.20.1126	04.20.1128	04,20.1129	04.20.1121
	1600		04.20.1164	04.20.1166	04.20.1168	04.20.1169	04.20.1161
	1800		04.20.1184	04.20.1186	04.20.1188	04.20.1189	04.20.1181
	2000		04.20.1204	04.20.1206	04.20.1208	04.20.1209	04.20.1201
20.2	800	EGB/ESD 🧟	04.20.2084	04.20.2086	04.20.2088	04.20.2089	04.20.2081
	1000		04.20.2104	04.20.2106	04.20.2108	04.20.2109	04.20.2101
	1200		04.20.2124	04.20.2126	04.20.2128	04.20.2129	04.20.2121
	1600		04.20.2164	04.20.2166	04.20.2168	04.20.2169	04.20.2161
	1800		04.20.2184	04.20.2186	04.20.2188	04.20.2189	04.20.2181
	2000		04.20.2204	04.20.2206	04.20.2208	04.20.2209	04.20.2201
20.3	800	Standard	04.20.3084	04.20.3086	04.20.3088	04.20.3089	04.20.3081
	1000		04.20.3104	04.20.3106	04.20.3108	04.20.3109	04.20.3101
	1200		04.20.3124	04.20.3126	04.20.3128	04.20.3129	04.20.3121
	1600		04.20.3164	04.20.3166	04.20.3168	04.20.3169	04.20.3161
	1800		04.20.3184	04.20.3186	04.20.3188	04.20.3189	04.20.3181
	2000		04.20.3204	04.20.3206	04.20.3208	04.20.3209	04.20.3201
20.4	800	EGB/ESD 🔕	04.20.4084	04.20.4086	04.20.4088	04.20.4089	04.20.4081
	1000		04.20.4104	04.20.4106	04.20.4108	04.20.4109	04.20.4101
	1200		04.20.4124	04.20.4126	04.20.4128	04.20.4129	04.20.4121
	1600		04.20.4164	04.20.4166	04.20.4168	04.20.4169	04.20.4161
	1800		04.20.4184	04.20.4186	04.20.4188	04.20.4189	04.20.4181
	2000		04.20.4204	04.20.4206	04.20.4208	04.20.4209	04.20.4201
20.5	800	Standard	04.20.5084	04.20.5086	04.20.5088	04.20.5089	04.20.5081
20.5	1000		04.20.5104	04.20.5106	04.20.5108	04.20.5109	04.20.5101
	1200		04.20.5124	04.20.5126	04.20.5128	04.20.5129	04.20.5121
	1600		04.20.5164	04.20.5166	04.20.5168	04.20.5169	04.20.5161
	1800		04.20.5184	04.20.5186	04.20.5188	04.20.5189	04.20.5181
	2000		04.20.5204	04.20.5206	04.20.5208	04.20.5209	04.20.5201
20.6	800	EGB/ESD 🔌	04.20.6084	04.20.6086	04.20.6088	04.20.6089	04.20.6081
20.0	1000		04.20.6104	04.20.6106	04.20.6108	04.20.6109	04.20.6101
	1200		04.20.6124	04.20.6126	04.20.6128	04.20.6129	04.20.6121
	1600		04.20.6164	04.20.6166	04.20.6168	04.20.6169	04.20.6161
	1800		04.20.6184	04.20.6186	04.20.6188	04.20.6189	04.20.6181
	2000		04.20.6204	04.20.6206	04.20.6208	04.20.6209	04.20.6201
20.7	800	Standard	04.20.7084	04.20.7086	04.20.7088	04.20.7089	04.20.7081
2017	1000	btanlaara	04.20.7104	04.20.7106	04.20.7108	04.20.7109	04.20.7101
	1200		04.20.7124	04.20.7126	04.20.7128	04.20.7129	04.20.7121
	1600		04.20.7164	04.20.7166	04.20.7168	04.20.7169	04.20.7161
	1800		04.20.7184	04.20.7186	04.20.7188	04.20.7189	04.20.7181
	2000		04.20.7204	04.20.7206	04.20.7208	04.20.7209	04.20.7201
20.8	800	EGB/ESD 🍳	04.20.7204	04.20.7200	04.20.7208	04.20.7209	04.20.7201
20.0	1000		04.20.8084	04.20.8080	04.20.8088	04.20.8089	04.20.8081
	1200		04.20.8104	04.20.8100	04.20.8108	04.20.8109	04.20.8101
	1200		04.20.8124	04.20.8120	04.20.8128	04.20.8129	04.20.8121
	1800			04.20.8186	04.20.8188	04.20.8189	04.20.8181
			04.20.8184	· ·	•	. ,	-
	2000		04.20.8204	04.20.8206	04.20.8208	04.20.8209	04.20.8201

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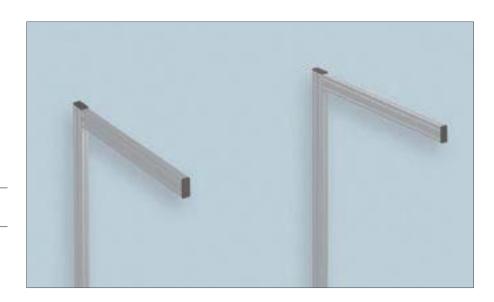
System components for the assembly world

Universal assembly extension arm

- consisting of two high-quality aluminium system profiles inclusive fastening material
- for installing working place lamps, rails and universal compressed air supply lines

Order No.

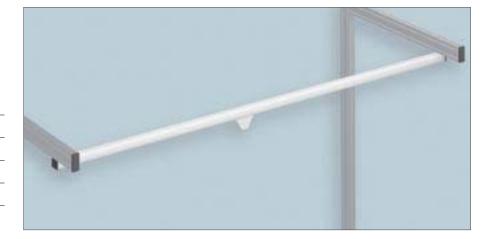
Universal assembly extension arm 04.22.100



Rail with tool carriage

- for installing balancers for air operated and electric tools
- steplessly adjustable in depth

Width of table	Order No.
1200 mm	04.22.1112
1600 mm	04.22.1116
1800 mm	04.22.1118
2000 mm	04.22.1120



Universal compressed air supply rail

- for connecting several air-operated tools
- steplessly adjustable in depth

	Couplings / Order No.
Width of table	4 Pcs.
1200 mm	04.22.1212
1600 mm	04.22.1216
1800 mm	04.22.1218
2000 mm	04.22.1220
Width of table	6 Pcs.
1200 mm	04.22.1312
1600 mm	04.22.1316
1800 mm	04.22.1318
2000 mm	04.22.1320



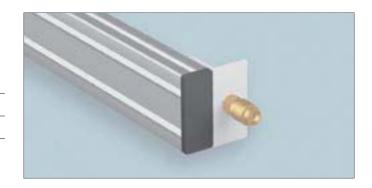


Accessories

Air-operated couplings at the assembly extension arm

- for the direct connection of air-operated tools

	Order No.
Connection at the left	04.22.1401
Connection at the right	04.22.1402



Accessories: Balancer

	Adjustable	Length of	
Article	load	extension arm	Order No.
	0,2 - 0,7 kg	2,2 M	04.22.1410
Balancer with cable pull	0,7 - 1,4 kg	2,2 M	04.22.1411
cable pull	1,4 - 2,3 kg	2,2 M	04.22.1412
Balancer with	0,5 - 1,0 kg	0,95 m	04.22.1413
cable pull and	1,0 - 2,0 kg	0,95 m	04.22.1414
compressed air spiral hose	1,2 - 2,5 kg	1,35 m	04.22.1415
	Usable work-		
Article	ing length	Outside spiral	Order No.
Compressed	2,5 m	Ø 110 mm	04.22.1416
air spiral hose	5,0 m	Ø 110 mm	04.22.1417
	7,5 m	Ø 110 mm	04.22.1418



Aluminium swivel lamp, light-gray RAL 7035

- inclinable and turnable
- reflector grid
- inclusive swivel arm and universal adapter

Width of lamp Fluorescent lamp ballast / Order No.

(power)	electronic	conventional
490 mm (1x36W)	04.22.1501	04.22.1502



Lighting systems



Aluminium lamp with pull cable, light-gray RAL 7035 inclusive lamp holder, steplessly adjustable in depth,

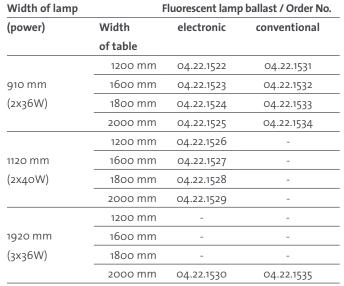
length of extension 300 - 1360 mm, reflector grid

Width of lamp		Fluorescent lan	np ballast / Order No.
(power)	Width	electronic	conventional
	of table		
	1200 mm	04.22.1510	04.22.1518
910 mm	1600 mm	04.22.1511	04.22.1519
(2x36W)	1800 mm	04.22.1512	04.22.1520
	2000 mm	04.22.1513	04.22.1521
	1200 mm	04.22.1514	-
1120 mm	1600 mm	04.22.1515	-
(2x40W)	1800 mm	04.22.1516	-
	2000 mm	04.22.1517	-

Aluminium working place lamp, light-gray RAL 7035

inclusive lamp holder, steplessly adjustable in depth, reflector grid







inclusive lamp holder, steplessly adjustable in depth, lamella grid made of sheet steel

Width of lamp	Width			
(power)	of table	Order No.		
	1200 mm	04.22.1536		
1225 mm (2)/26/11/	1600 mm	04.22.1537		
1225 mm (2x36W)	1800 mm	04.22.1538		
	2000 mm	04.22.1539		
	1200 mm	-		
1525 mm (2x58W)	1600 mm	04.22.1540		
1525 11111 (2850 VV)	1800 mm	04.22.1541		
	2000 mm	04.22.1542		





Lighting systems

Point light lamp

- Lamp body made aluminium with heat protection casing
- Equipment: Halogen lamp 20 W, lamp covering made of glass
- Lamp body Ø 71 x 80 mm black
- Rods 280 + 425 mm, stone-gray RAL 7030
- Voltage: 230 V, 50/60 Hz
- Built-in transformer

Order No.	04.22.1601	04.22.2.1602
Design	with table leg	fastening to an aluminium leg
		With universal adapter for the lateral

Fan lamp

- Lamp body made of plastics
- Equipment: Ring lamp 22 W
- Lamp body Ø 247 mm, light-gray RAL 7035
- Rods 410 + 410 mm, light-gray RAL 7035
- Voltage: 230 V, 50 Hz
- Built-in fluorescent lamp ballast
- Fan for separate switching on/off and freely blowing,
- equipped with an active carbon filter



Order No.	04.22.1604	04.22.1605
Design	with table leg	fastening to an aluminium leg
		with universal adapter for the lateral

With universal adapter for the lateral

Magnifying lamp

- Lamp body made of plastics
- Equlipment: Compact LS lamp 11 watt
- Lamp body 270 x 67 x 52 mm, gray-white approx. RAL 9002
- Rods 400 + 420 mm, gray-white approx. RAL 9002
- Voltage: 230 V, 50 Hz.
- Plug-type fluorescent lamp ballast
- Magnifying glass 4 diopters, Ø 120 mm

Order No.	04.22.1607	04.22.1608
Design	with table leg	fastening to an aluminium leg
		With universal adapter for the lateral

Office and computer working places

- Lamp body made of plastics
- Equipment: 2 compact LS lamps 9 watt
- Lamp body 223 x 210 x 57 mm, dust-gray RAL 7037
- Rods 445 + 400 mm, light-gray RAL 7035
- Voltage: 230 V, 50 Hz
- Plug-type fluorescent lamp ballast

- Plug-type fluorescent lamp ballast		With universal adapter for the lateral
Design	with table leg	fastening to an aluminium leg
Order No.	04.22.1610	04.22.1611



Perforated sheet metal walls and accessories

Sheet metal wall

- with square holes

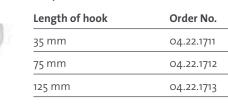
- for installation between two alulminiumleg profiles

Size of perforated plate (width x height)	Order No. light-gray RAL 7035	Order No. gentian-blue RAL 5010
502 x 449 mm	04.22.1701	04.22.1705
996 x 449 mm	04.22.1702	04.22.1706
1490 x 449 mm	04.22.1703	04.22.1707
1986 x 449 mm	04.22.1704	04.22.1708

Accessories

for suspension in the sheet metal walls

Simple hook Ø 6 mm





Double hook Ø 6 mm

Length of hook	Order No.
35 mm	04.22.1714
50 mm	04.22.1715
75 mm	04.22.1716
150 mm	04.22.1717



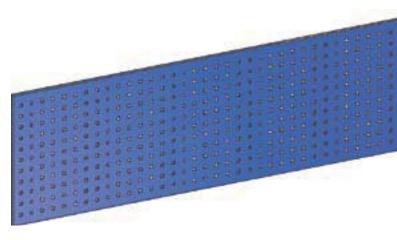
Simple tool clamp Ø

Ø	Order No.
6 mm	04.22.1719
10 mm	04.22.1720
13 mm	04.22.1721
16 mm	04.22.1722
19 mm	04.22.1723
25 mm	04.22.1724
28 mm	04.22.1725
32 mm	04.22.1726



Double tool clamp

Order No.
04.22.1727
04.22.1728
04.22.1729
04.22.1730
04.22.1731





Storaage tray

Size	Order No.
350 x 125 x 12 mm	04.22.1732
445 x 150 x 12 mm	04.22.1733

Tin holder Ø 70 mm

for	Size	Order No.
1 tin	100 x 90 x 70 mm	04.22.1734
3 tins	300 x 90 x 70 mm	04.22.1735

Unrolling holder

Size	Order No.
360 x 100 x 120 mm	04.22.1736

Hose holder

Size	Order No.
230 x 125 x 100 mm	04.22.1737

Tool holder for 6 screwdrivers

Size	Order No.	
200 x 30 x 30 mm	04.22.1738	

Pipe holder

Ø	Order No.
60 mm	04.22.1739
100 mm	04.22.1740

Maintenance unit for the preparation of compressed air

Order No.

04.22.1741

6.0	

















Bowls, cases, tongues



Article	Size	Contents Order No.		(A)
	(widthxdepthxheight)	(litres)	conductive not	conductive
Bowle	82 x 86 x 50 mm	0,15 l	04.22.1801	04.22.1802
	123 x 86 x 50 mm	0,24 l	04.22.1803	04.22.1804
	173 x 86 x 50 mm	0,36 l	04.22.1805	04.22.1806
Case	82 x 173 x 50 mm	0,37	04.22.1810	04.22.1811
	123 x 173 x 50 mm	0,60 l	04.22.1812	04.22.1813
	123 x 173 x 100 mm	1,37 l	04.22.1814	04.22.1815
	173 x 245 x 100 mm	3,05	04.22.1816	04.22.1817
Cover for case	77 x 173 x 13 mm	-	04.22.1820	04.22.1821
	117 x 173 x 13 mm	-	04.22.1822	04.22.1823
	117 x 173 x 32 mm	-	04.22.1824	04.22.1825
	167 x 245 x 32 mm	-	04.22.1826	04.22.1827
Tongue	90 x 277 x 54 mm	0,69 l	04.22.1830	04.22.1831
	131 x 277 x 54 mm	1,05 l	04.22.1832	04.22.1833

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Accessories for cases: (suitable for all 4 sizes) Fastening clip for labels Order No. 04.22.1840 (10 pcs.) Labels, lined Order No. 04.22.1841 (10 pcs.)



Horizontal holding profile

Width of table	Order No.
1200 mm	04.22.1850
1600 mm	04.22.1851
1800 mm	04.22.1852
2000 mm	04.22.1853

Universal profile frame with displaceable shelves for the cases

Width of table	Order No.
1200 mm	04.22.1855
1600 mm	04.22.1856
1800 mm	04.22.1857
2000 mm	04.22.1858



Labels for visual stock boxes

10 pcs. each

suitable for type	Order No.	
1	04.22.0001	
2, 3, 4, 5	04.22.0002	

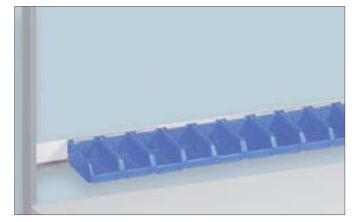
Visual stock boxes made of plastics

- Colour: blue (not conductive), black (conductive)

- resistant against most acids and lyes

- Temperature resistant betwen-40° and +80° C

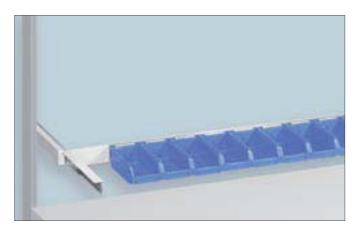
			Size (width x	Contents	
	Design	Туре	depth x height)	(litres)	Order No.
		1	100 x 160 x 75 mm	0,80 l	04.22.1860
	not	2	150 x 230 x 130 mm	2,60 l	04.22.1861
	conductive	3	220 x 350 x 200 mm	10,4 l	04.22.1862
		4	320 x 500 x 200 mm	23,5 l	04.22.1863
		5	470 x 520 x 300 mm	57,0 l	04.22.1864
		1	95 x 160 x 76 mm	0,80 l	04.22.1865
Y	conductive	2	150 x 230 x 120 mm	2,60 l	04.22.1866
	(ESD)	3	200 x 350 x 200 mm	10,0 l	04.22.1867
	· ·	4	300 x 510 x 200 mm	23,0 l	04.22.1868



Holding rails for visual stock boxes

steplessly adjustable in height, scope of supply without container

Visual	Width	Number	
stock box	of table	of boxes	Order No.
	1200 mm	10	04.22.1870
Tuno d	1600 mm	11	04.22.1871
Туре 1	1800 mm	11	04.22.1872
	2000 mm	11	04.22.1873
	1200 mm	6	04.22.1874
Tuno o	1600 mm	7	04.22.1875
Туре 2	1800 mm	7	04.22.1876
	2000 mm	7	04.22.1877



Depth adjustable holding rail for visual stock boxes

withdrawable to the front by 250 mm, steplessly adjustable in height, scope of supply without container

Visual	Width	Number	
stock box	of table	of boxes	Order No.
	1200 mm	10	04.22.1970
	1600 mm	11	04.22.1971
Туре 1	1800 mm	11	04.22.1972
	2000 mm	11	04.22.1973
	1200 mm	6	04.22.1974
Turne a	1600 mm	7	04.22.1975
Type 2	1800 mm	7	04.22.1976
	2000 mm	7	04.22.1977

High-quality swiveling technique



Universal adapter

Order No. 04.23.001

- for the quick and simple adaptation to the aluminium leg system profile
- designed for heavy loads
- steplessly adjustable in height



Auxiliary swivel arm

Order No. 04.23.002

- the solid round bolt is directly pluged in the universal adapter
- the basic swivel arm is



Basic swivel arm

Order No. 04.23.003

 Designed as single swivel arm (see small photograph below): the solid round bolt is directly pluged in the universal adapter

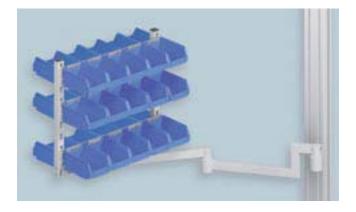
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- Designed as double swivel arm (see big photograph below): the solid round bolt is directly pluged in the auxiliary swivel arm
- the swiveling elements can be fitted at the other end of the swivel arm





Swiveling elements



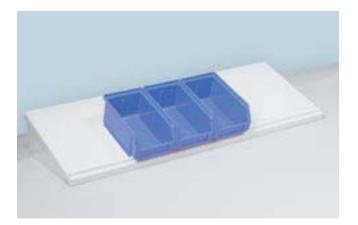
Holding frame type 1 for visual stock boxes

	for visual	Number	
Design	stock boxes	of boxes	Order No.
Single-sided	Туре 1	15	04.23.010
fitting	Туре 2	6	04.23.011
Double-sided	Туре 1	30	04.23.012
fitting	Type 2	12	04.23.013



Holding frame type 2 for visual stock boxes

Design	for visual stock boxes	Number of boxes	Order No.
Single-sided fitting	Туре 1	7	04.23.020



Inclined tray for visual stock boxes

- is directly placed on the work top

- rubber buffers at the underside avoid an

unintentional displacement

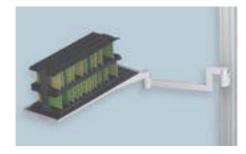
	for visual	Number	
Design	stock boxes	of boxes	Order No.
Single-sided	Туре 1	6	0 4 33 635
fitting	Type 2	4	- 04.23.025

Storage plates, circulat storage plates, documentation



Note:

For swiveling storage plates, circular storage plates and information boards, please indicate separately the universal adapter and the swivel arms listed on page 57.









Swiveling storage plate

- inclusive rubber mat
- for preparing material, accessories etc.

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Size (width x depth)	Order No.
700 x 250 mm	04.23.030
600 x 400 mm	04.23.031

Circular storage plate 360°

- for small items

Size (width x depth)	Order No.	
not conductive	04.23.032	
conductive (ESD)	04.23.033	

Information board

- inclusive 4 solenoids
- slewable to the back by 90°

Size (width x depth)	Order No.
DIN A4 high	04.23.034
DIN A4 transverse	04.23.035
DIN A3 high	04.23.036
DIN A3 transverse	04.23.037

Holder for foil bags

Order No. 04.23.038

- with 10 foils DINA 4 for documents
- optionally for the direct fastening to the table top or to the aluminium leg system profile by means of the universal adapter

Others



Cable comb for approx. 40 laboratory cords Order No. 04.23.039



Holder for measuring lines, slewable by 180° $\,$

optionally equipped at one or two sides with:

- 1 hose holder with 3 depositing possibilities
- 1 laboratory cord holder 300 mm long with 21 supporting elements

Design	Order No.
Single-sided fitting	04.23.040
Double-sided fitting	04.23.041

Others



Bottle holder

- for bottles and square drinks
- steel wire, light-gray, coated with plastics
 Order No. 04.23.042



Cup holder
- for cups and beakers

- plastic, black

Order No. 04.23.043



Hook for accessories

- length 50 mm
- Ø6mm
- Steel
 - Order No. 04.23.044



Cable roll holder

Pattern

- for installation between two aluminium leg system profiles of an ABZ table
- steplessly adjustable in height

Waste paper basket light-gray

- removable bar Ø 18 mm

Width of table	Order No.
1200 mm	04.23.047
1600 mm	04.23.048
1800 mm	04.23.049
2000 mm	04.23.050

Order No.

Waste paper basket		
with separating system		
18 litres		

- inclusive adapter
 and swivel arm
 (380 mm long)
- waste paper basket inclusive 2 inserts 2,2 litres and 2 hinged

Ergonomic foot rests



2 Inserts stone-gray 1 Hinged lid gray 1 Hinged lid green Waste paper basket black 2 Inserts black 1 Hinged lid gray 1 Hinged lid green 04.23.045 04.23.045 04.23.045

	Order No.	(A)
Design	not conductive	conductive
Model 1	04.23.051	-
Model 2	04.23.052	04.23.053
Model 3	04.23.054	04.23.055





Model 1 (not conductive)

- colour black-chrome
- chromium-plated rack on non-skidding rubber legs
- solid base plate, simply adjustable by the push of the foot
- height adjustment 50 100 mm
- Model 2 (not conductive, alternatively conductive) - colour black
- adjustable by an inclination fitted at the underside
- with the conductive design the foot rest can be connected directly to the earthing potential by an earthing point, leak 10 MΩ
- height adjustment at the front 30-00 mm, at the back 70–175 mm

Model 3 (not conductive and conductive resp.)

- directly connected with the table, fits optimally in shape and function to the table system
- steplessly inclinable and horizontally displaceable
- height adjustable
- leak 10 MΩ

Electric energy supply



orizontal attachment for multiple connector strips

- for installation to two aluminium leg system profiles of an ABZ table
- steplessly adjustable in height
- for the lateral insertion of multiple connector strips
- with two openings for the feedthrough of mains supply lines



Cable tray

Ideal for placing-in a large amont of cables and multiple connector strips. Accessible from the front, open at the sides for the optimal feedthrough. Optionally directly connected with the steel frame or adjustable in height at the aluminium leg profile adapted at the back.

Size: Usable height: 160 mm, depth of groove: 160 mm, edged at the front: 40 mm

Cable tray fitted directly to the steel frame

Width of table

1200mm

1600mm

1800mm

2000mm

Cable tray fittes to the aluminium leg profile, adjustable in height

Order No.

04.23.074

04.23.075

04.23.076

04.23.077

Order No.

Tischbreite

1200mm

1600mm

1800mm

2000mm

Width of table	Order No.
1200 mm	04.23.060
1600 mm	04.23.061
1800 mm	04.23.062
2000 mm	04.23.063





Multiple	connector	strips

- casing made of shockproof PP, free from chlorine and halogene
- shockproof sockets DIN 49440, 250 V ~, 16 A
- connection line 2 m with shockproof angular plug
- arrangement of sockets 45°
- colour anthracite-gray similar to RAL 7016

Multiple connector strips with overvoltage protection, 16 A

- casing made of shockproof PP, free from chlorine and halogene
- shockproof sockets DIN 49440, 250 V ~, 16 A
- connection line 2 m
- arrangement of sockets 45°
- colour anthracite-gray similar to RAL 7016
- with optical danger signal

Industrial multiple connector strips

- casing made of shockproof PP, free from chlorine and halogene
- shockproof sockets DIN 49440, 250 V ~, 16 A
- connection line 2 m with shockproof angular plug
- arrangement of sockets 45°
- colour orange similar to RAL 2004

Design	Sockets	Width of strip
	5-fold	384 mm

Order No.

04.23.070

04.23.071

04.23.072

04.23.073

without switch	5-fold	384 mm	04.23.080
WITHOUT SWITCH	6-fold	428 mm	04.23.081
with switch,	5-fold	384 mm	04.23.082
2 poles, illuminated	6-fold	428 mm	04.23.083

Design	Sockets	Width of strip	Order No.
with switch, 2 poles,	5-fold	472 mm	04.23.084
illuminated, with- out supply filter	6-fold	516 mm	04.23.085
with switch, 2 poles, illuminated, with supply filter	5-fold	560 mm	04.23.086
	6-fold	604 mm	04.23.087

Design	Sockets	Width of strip	Order No.
without switch	3-fold	296 mm	04.23.088
with switch, 2 poles, illuminated	3-fold	296 mm	04.23.089

Electric energy supply

Vertical aluminium energy channel

- for fitting to the aluminium leg profile
- 5 designs available





Design 3:

- fuse protection unit:
 Emergency shut-off push-button,
 room emergency shut-off prepared,
 motor protection switch 10-16A with
 built-in undervoltage release,
 NFI switch, leakage current 30 mA,
 nominal current 25 A
- 2 x shockproof socket 230 V/50 Hz
- compressed air connection
- On/off switch for the light at the universal assembly extension arm or for another consumer point at the working place

Order No. 04.23.092



Design 1:

- 4 x shockproof socket 230 V/50 Hz
- acoustical continuity tester
- compressed air connection
- On/off switch for the light at the universal assembly extension arm or for another consumer point at the working place

Order No. 04.23.090



Design 4:

- fuse protection unit:
 Emergency shut-off push-button,
 room emergency shut-off prepared,
 motor protection switch 10-16A with
 built-in undervoltage release,
 NFI switch, leakage current 30 mA,
 nominal current 25 A
- 2 x shockproof socket 230 V/50 Hz
- socket without earthing contact by isolating transformer for taking-out unearthed alternating voltage 230 V/max.
 75 VA, 50 Hz. inclusive safety fuse
- compressed air connection
- On/off switch for the light at the universal assembly extension arm or for another consumer point at the working place



Design 2:

- 4 x shockproof socket 230 V/50 Hz
- RJ 45 double socket CAT 6, not wired
- compressed air connection
- On/off switch for the light at the universal assembly extension arm or for another consumer point at the working place

Order No. 04.23.091



Design 5:

- fuse protection unit:
 Emergency shut-off push-button,
 room emergency shut-off prepared,
 motor protection switch 10-16A with
 built-in undervoltage release,
 NFI switch, leakage current 30 mA,
- nominal current 25 A
- shockproof socket 230 V/50 Hz
- acoustical continuity tester
- compressed air connection
- On/off switch for the light at the universal assembly extension arm or for another consumer point at the working place

Order No. 04.23.094



Experiment frames – for installing DIN A4 experiment plates



Experiment frames with extension arm, displaceable in an elongated hole

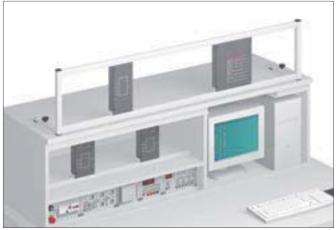




for basic tables and basic tables with attachments

Experiment frames

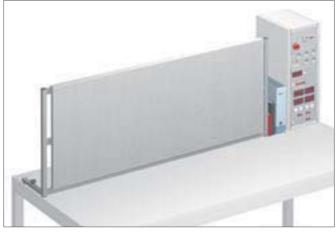
Width of table	1 row	2 rows	3 rows
1200 mm	04.25.0121	04.25.0122	04.25.0123
1600 mm	04.25.0161	04.25.0162	04.25.0163
1800 mm	04.25.0181	04.25.0182	04.25.0183
2000 mm	04.25.0201	04.25.0202	04.25.0203



For foldaway tables

Experiment frames

Width of table	1 row	2 rows	3 rows
1200 mm	04.25.2121	04.25.2122	04.25.2123
1600 mm	04.25.2161	04.25.2162	04.25.2163
1800 mm	04.25.2181	04.25.2182	04.25.2183
2000 mm	04.25.2201	04.25.2202	04.25.2203



for basic table with 19 inch racks

Width of rack/experiment frame 2 rows

Width of table	257 mm	328 mm	525 mm
1200 mm	04.25.1122	04.25.1123	-
1600 mm	04.25.1162	04.25.1163	04.25.1165
1800 mm	04.25.1182	04.25.1183	04.25.1185
2000 mm	04.25.1202	04.25.1203	04.25.1205

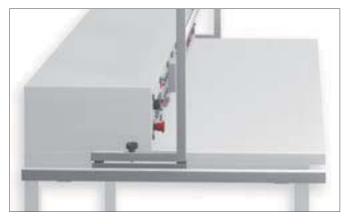


for basic tables with pentagonal / octagonal attachments (to be pluged in Delrin bushings)

Experiment frames

Width of table	1 row	2 rows
1200 mm	04.25.3121	04.25.3122
1600 mm	04.25.3161	04.25.3162
1800 mm	04.25.3181	04.25.3182
2000 mm	04.25.3201	04.25.3202

Displaceable and variable experiment frames





and the Lindow Hall Store A4 A4 1320 1009 mm 2-reihig A4 64 A4 688

Experiment frames

Width of table	1 row	2 rows	3 rows
1200 mm	04.25.7121	04.25.7122	04.25.7123
1600 mm	04.25.7161	04.25.7162	04.25.7163
1800 mm	04.25.7181	04.25.7182	04.25.7183
2000 mm	04.25.7201	04.25.7202	04.25.7203

326

mm

326

mm

Guide unit, placed on ball bearings

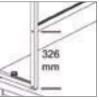
consisting of two guide rails inclusive guide blocks (high-quality ball bearing guide). The experiment frame is installed in the guide unit, leaving free space in the lower part. The design is so chosen that the complete block with the frame can be removed to the front. Due to the mechanical coupling of the guide unit with the experiment frame, complete tests built-up in the frame, can be pushed back to the end of the table.

Depth of table	Guide unit per table
800mm	04.25.6001
900mm	04.25.6002
1000mm	04.25.6003

Experiment frame with free space in the lower part

Ideally suited for direct assembly works on the guide unit. Due to the free space the frame can be displaced to the rear above the table attachment. The frame can also be used in connection with swivel attachments.





-reihia

326 mm

mm



Experiment frames between two aluminium leg profiles

	Experiment frames		
Width of table	1 row	2 rows	3 rows
1200 mm	04.25.4121	04.25.4122	04.25.4123
1600 mm	04.25.4161	04.25.4162	04.25.4163
1800 mm	04.25.4181	04.25.4182	04.25.4183
2000 mm	04.25.4201	04.25.4202	04.25.4203

Perforated sheet metal walls

for suspension in experiment frames with 2 rows inclusive locking button

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Size of perforated	Oval perforation	Rectangular perforation
sheet metal plate	14 x 5 mm	10 x 5 mm
670 x 662 mm	04.25.5671	04.25.5672
870 x 662 mm	04.25.5871	04.25.5872
1070 x 662 mm	04.25.5101	04.25.5102
1270 x 662 mm	04.25.5121	04.25.5122
1470 x 662 mm	04.25.5141	04.25.5142
1670 x 662 mm	04.25.5161	04.25.5162
1870 x 662 mm	04.25.5181	04.25.5182
	1	

Other sizes available on request.

Fastening kit for perforated sheet metal walls consisting of:

- 100 special plastic dowels
- 25 Spax screws 3,5 x 12 mm
- 50 Spax screws 3,5 x 20 mm
- 25 Spax screws 3,5 x 30 mm

for oval perforation 14 x 5 mm Order No. 04.25.5300 for rectangular perforation 10 x 5 mm Order No. 04.25.5301

Multifunctional classrooms due to innovative ABZ® foldaway tables GS-certified by the German employer's liability insurance association Cologne (tested security)

A professional driving unit allows changing table functions. The attachments on the table of the most different types can be folded down and retracted again at the working place by the teacher's partitioning or by individual keys. A cut-out bar guar-

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antees optimal safety. When operating the safety cut-out bar, an immediate thrust reversal is released. In addition a current control is integrated. In case of overload of the upward movement the drive switches off automatically. A multiple safety device per function element ensures 100 % safety. The entire system is certified by the German employer's liability insurance association and bears the GS label.





The foldaway tables are deliverable in 3 different designs:

Foldaway table with 19"/3HE attachment
 Foldaway table with 19"/6HE attachment
 Foldaway table with combined attachments
 of a great variety

Professional partitioning

As a rule, the partitioning is installed in the teacher's table in a 19" bottom cabinet.

Example of a partitioning:

Equipment from to to bottom:

Control module

Up/down keys per trainee's working place Central locking module

with key-operated switch, room emergency stop key, motor protection switch, FI-safety switch etc.

Individual network release module

Release of the network for each individual trainee working place by means of a motor protection switch, alternatively by means of a line safety switch

Note: On request, a remote control can be supplied instead of the up/down keys.







Foldaway attachment 3 HE

inclusive 19" device support

Width of table	TE units	Depth of foldaway unit 490 mm
1200 mm	198 TE	04.26.1203
1600 mm	276 TE	04.26.1603
1800 mm	316 TE	04.26.1803
2000 mm	355 TE	04.26.2003

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Foldaway attachment 6 HE

inclusive 19" device support

Width of table	TE units	Depth of foldaway unit 490 mm
1200 mm	198 TE	04.26.1206
1600 mm	276 TE	04.26.1606
1800 mm	316 TE	04.26.1806
2000 mm	355 TE	04.26.2006

Combined foldaway attachment

Top left: 1 row experiment frame for installing DINA 4 experiment plates

Bottom left: 3 HE, inclusive 19" device support

Storage place for monitor and PC, inclusive keyboard holder Right:

Width of table	Inside width top left	TE units bottom left	Depth of foldaway unit 590 mm
1600 mm	744 mm	141 TE	04.26.1607
1800 mm	944 mm	180 TE	04.26.1807
2000 mm	1144 mm	219 TE	04.26.2007

Double foldaway attachment, separately controlable

Left-hand foldaway attachment:

optionally 3 HE or 6 HE, inclusive 19" device support Right-hand foldaway attachment:

Storage place for flat screen inclusive keyboard holder In addition 1 PC bottom cabinet inclusive front door

Security function:

A modern multi-processor

switching guarantees a maximum of security. Processors of reciprocal control monitor permanently the power consumption and the integrated safety cut-out bar.

Width of table	TE units	Foldaway attachment left-hand	Depth of foldaway unit 490 mm
1600 mm	139 TE	3 HE	04.26.1638
		6 HE	04.26.1668
1800 mm	178 TE	3 HE	04.26.1838
		6 HE	04.26.1868
2000 mm	218 TE	3 HE	04.26.2038
		6 HE	04.26.2068

Multi-functional classrooms due to tables with integrated swivel attachments

The energy swivel attachment

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The working places are frequently equipped with small power supplies and different types of measuring technique. Small energy attachments are sufficient in this case. A special feature of the energy swivel attachment is the low overall depth and it has been designed for using the insert board programme acto.

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The swivel attachments are available of manual or motorised design as well as in two different models:

 ABZ tables with energy swivel attachment for the insert board programme acto.
 ABZ tables with 19"/3 HE swivel attachment for 19" partial and full racks of the equipment programme highlab and basic.

Manual design

With the manual design the attachment can be folded upward by a spring and can be closed again by pressing it downward. A central release at the teacher's place unlocks the swivel attachments.



Motorised design with security function

A microprocessor controlled drive swings the attachment into position without jerks and noise. The double sealing lip at the front of the attachment and the security function guarantee a high safety. The security function monitors the continuous current consumption. In case of excess current the upward movement is immediately stopped and with the downward movement the thrust is reversed. Due to integrated interfaces the swivel attachments can be controlled individually and can be interlinked.

The 19"/3 HE swivel attachment

This attachment has been designed for integrating 19" full racks and partial racks in a swivel attachment. All current 3 HE devices of the series basic and highlab are, therefore, useable also with the swivel attachment technique.

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Swivel attachment 700 mm or 900 mm long Optionally for installing 3 HE devices inclusive 19" device support or for energy insert boards acto. These swivel attachments are available of manual and motorised design.



	Width of swivel					
Size of table	attachment	TE units	For installation of	Manual design	Motorised design	
1600 x 800 x 780 mm	700 mm	126 TE	3 HE devices	04.27.1671	04.27.1673	
			Insert boards acto	04.27.1672	04.27.1674	
	900 mm	168 TE	3 HE devices	04.27.1691	04.27.1693	
			Insert boards acto	04.27.1692	04.27.1694	
1800 x 800 x 780 mm	700 mm	126 TE	3 HE devices	04.27.1871	04.27.1873	
			Insert boards acto	04.27.1872	04.27.1874	
	900 mm	168 TE	3 HE devices	04.27.1891	04.27.1893	
			Insert boards acto	04.27.1892	04.27.1894	
2000 x 800 x 780 mm	700 mm	126 TE	3 HE devices	04.27.2071	04.27.2073	
			Insert boards acto	04.27.2072	04.27.2074	
	900 mm		3 HE devices	04.27.2091	04.27.2093	
		168 TE	Insert boards acto	04.27.2092	04.27.2094	

Swivel attachment across the entire width of table

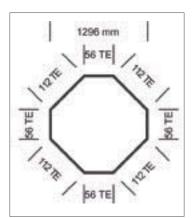
Optionally for installing 3 HE devices inclusive 19" device supports or for energy insert boards acto. These swivel attachments are available of manual and motorised design.



Size of table	For installation of	TE units	Manual design	Motorised design
1200 x 800 x 780 mm	3 HE devices	209 TE	-	04.27.1201
	Insert boards acto	210 TE	04.27.1202	04.27.1203
1600 x 800 x 780 mm	3 HE devices	288 TE	-	04.27.1601
	Insert boards acto	289 TE	04.27.1602	04.27.1603
1800 x 800 x 780 mm	3 HE devices	327 TE	-	04.27.1801
	Insert boards acto	328 TE	04.27.1802	04.27.1803
2000 x 800 x 780 mm	3 HE devices	367 TE	-	04.27.2001
	Insert boards acto	368 TE	04.27.2002	04.27.2003

The octagon and pentagon attachments of 19"/3 HE technique

The octagon attachment of 19" technique for training in groups and for team works resp. is so designed that each trainee can use the device configuration which was meant for him. The entire medium guidance can invisibly be inserted in the attachment by means of cable channels from the bottom. On request, the medium supply can be made centrally from the ceiling by means of aluminium system profiles which are extended to the top.

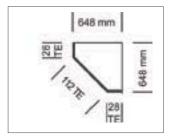


The octagon attachment of 19"/3 HE technique

The medium can invisibly be inserted in the attachment from the floor by means of the central ABZ leg system profile. Octagon attachment 3 HE 1296 x 1296 x 227 mm **Order No. 04.28.800**

The octagon attachment inclusive 4-chamber aluminium leg system profile

The medium can invisibly be inserted in the attachment from the ceiling by means of a large-volume 4-chamber aluminium leg system profile. The scope of supply includes in addition: 4-chamber aluminium leg system profile up to a ceiling height of 3,5 m (depending on the ceiling height) inclusive fastening and assembly material for connection to the ceiling. Octagon attachment 3 HE inclusive 4-chamber aluminium leg system profile. 1296 x 1296 x 227 mm **Order No. 04.28.801**



This attachment offers sufficient space for the standard device configuration of a training place. Due to the modular design also individual tables can be set up in a workshop. The pentagon attachment has also been planned for wall mounted working places. These attachments offer for the individual working place the advantages of the octagon attachment. The entire depth of the table can be used by approx. 2/3 of the width of the table inspite of the integration of devices.

Order No. 04.28.500



19" Device rack

inclusive 19" device support

Device support	Width of rack	Order No.
5 x 3 HE/ 42 TE	257 mm	04.29.001
5 x 3 HE/ 56 TE	328 mm	04.29.002
5 x 3 HE/ 70 TE	399 mm	04.29.003
5 x 3 HE/ 84 TE	470 mm	04.29.004
5 x 3 HE/ 19"	525 mm	04.29.005



Suspended drawer units for a double use

Order No. 04.29.010

- This suspended drawer unit can be fitted in the middle, right or left-hand side underneath the working place.
- Two different locks guarantee the strict assignment of the drawers.
- An additional intermediate board avoids the access to the drawer of another trainee.
- Recommended minimum width of the table: 1800 mm



Suspended drawer units, adjustable in depth

can easily be displaced to the rear by a high-quality guide on ball bearing. This creates sufficient leg-room at the front for an additional person. Recommended minimum width of the table with suspended container units which are adjustable in depth: 900 mm

Additional price per drawer unit

Depth of table	Order No.	
900 mm	04.29.020	
1000 mm	04.29.021	



The cabinet systems varantec[®]pro and varantec[®]select Groupe 1: Basic cabinets



With the GS-certified cabinet systems varantec[®]pro and varantec[®]select all possible applications in a company can be materialized.

varantec®pro

The basic programme for highest demands on quality in the fields of application engineering, laboratory and office.

varantec®select

This cabinet programme represents the moderen aluminium cabinet system line for highest demands on functionality and aesthetics.

Note:

The detailed technical data of both these cabinet systems are contained in the big coloured catalogue "varantec[®] - The working place system without compromise" from page 142 as well as in the detailed order catalogue "varantec[®] - System components" from page 16. The cabinets shown therein are only a few selected examples and due to the enormously efficient system components can be combined individually.



varantec[®]pro basic cabinet Double cabinet with wing doors

Figure: Pattern beech, top with basic edge, elegant segment handles, chromium-plated, equipped with 3 shelves, high-quality 270° door armatures requiring a minimum of space Size: 840 x 600 x 1200 mm (width x depth x height)



varantec[®]pro basic cabinet

Individual cabinet with drawers of the compact drawer system DIN A4 artitioning of the drawers according to the catalogue varantec system components Figure: Pattern light-gray, top with postforming edge, bow-type handles made of spring steel. Size: 430 × 420 × 1000 mm (width × depth × height)



Individual cabinet with drawers of the wide-wall drawer system 2 Partitioning of the drawers as per the catalogue varantec system components Figure: Pattern maple, top with nicely shaped postforming edge, elegant segment handles, chromium-plated Size: 1260 x 420 x 1200 mm (width x depth x height)

varantec[®]pro and varantec[®]select Group 2: Sideboard system



varantec®pro sideboard with plastic sliding doors Figure: Pattern light-gray, top with basic edge, bow-type handles light-blue RAL 5012, 1 adjustable shelf, suitable for accommodating 2 rows DIN A4, at the front 2 sliding doors inclusive lock Size: 1220 x 400 x 780 mm (width x depth x height)



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varantec select sideboard with horizontal roller shutters Figure: Pattern maple, top with nicely shaped postforming edge, elegant segment handle chromium-plated, equipped with 3 shelves, roller shutters silver gray Size: 860 x 400 x 780 mm (width x depth x height)



varantec[®]pro combination sideboard with glass sliding doors and a horizontal roller shutter system

Figure: Pattern maple, top with a nicely shaped postforming edge, bow-type handles chromium-plated. Bottom sideboard:

equipped with 2 shelves, roller shutters silver gray Size: 1820 x 600 x 1000 mm (width x depth x height) Top sideboard:

equipped with 4 glass shelves (ESG), at the front glass sliding doors (ESG), 1 central partition wall Size: 1820 x 400 x 1000 mm (width x depth x height)

varantec[®]pro and varantec[®]select Group 3: High-level cabinet system for laboratory and office

This group of cabinets can be equipped with drawers, wing doors and roller shutter systems. The doors are made of high-density fine chipboards with a structured, anti-dazzle plastic covering or alternatively made of glass (on request, toughened safety glass ESG deliverable). The standard height of the high-level cabinets is 2000 mm. With top cabinets and facings, the high-level cabinets can be extended to the ceiling.

Note:

The illustrated cabinet is part of the aluminium cabinet series varantec®select and its special feature is the additional aluminium system profile adapted to the outside.



1

Basic cabinet with 2 all-over wing doors and 2 aluminium profiles Size: 1030 x 600 x 2000 mm (width x depth x height)

2

Row cabinet with wing doors with 4/5 glazing inclusive all-around frame Size: 1000 x 600 x 2000 mm (width x depth x height)

3

Row cabinet with glass wing doors with full glazing inclusive all round frame Size: 1000 x 600 x 2000 mm (width x depth x height)

4 Row cabinet with glass wing doors with frameless full glazing Size: 1000 x 600 x 2000 mm (width x depth x height)



3

5

Row cabinet with roller shutters and drawers Size: 1000 x 600 x 2000 mm (width x depth x height)

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6

Final row cabinet as open hall cupboard with 2 aluminium profiles

(On request also with double doors at the front) Size: 1020 x 600 x 2000 mm (width x depth x height)

7

Top element as basic row cabinet with facing, 2 all-over wing doors and 2 aluminium profiles *Size: 1030 x 600 x 900 mm* (width x depth x height)

8

Top element as row cabinet with facing, 2 all-over wing doors Size: 1000 x 600 x 900 mm (width x depth x height)

9

Top element as final row cabinet with facing, 2 all-over wing doors and 2 aluminium profiles Size: 1020 x 600 x 900 mm (width x depth x height)

a

Aluminium profile at the front

b

Aluminium profile at the back

Note: The interior fittings of the cabinet correspond to the system components of the cabinet programme varantec[®]pro.

Integration of monitors in the working place



Embedded monitors with an integrated glass panel in the work top Recommended depth of table: 1000 mm

Professional covering underneath the work top. The angle of vision is adjustable by a flexible support. High-quality, non-reflecting safety glass.

Design	Screen diagonal	Additional price per cutout/Order No.	
Embedded	17 Zoll	04.99.0001	
monitor	19 Zoll	04.99.0002	
Embedded flat	17 Zoll	04.99.0003	
screen Monitor	19 Zoll	04.99.0004	



Swivel arm

Order No. 04.99.0005

- steplessly adjustable in height (gas spring supported)
- carrying power 5-20 kg
- with integrated keyboard support (withdrawable and lowerable) and rest for the ball of the thumb
- maximum depth of keyboard 255 mm
- cable insert system with torsion protection
- colour light-gray RAL 7035
- monitor support size (width x depth) 400 x 400 mm
 with cable feedthrough box, size (width x depth) 40 x 80 mm
- swivel length 790-980 mm (from basic axle to front edge of keyboard support)
- for direct pluging in the universal adapter



Monitor stage

Order No. 04.99.0006

- at the top, for placing on the monitor
- at the bottom, for keeping the keyboard
- sizes (width x depth x height)
 585 x 360 x 80 mm (outside)
 543 x 360 x 60 mm (inside)



Withdrawable keyboard support

Order No. 04.99.0007

- withdrawable for installation underneath the work top
- maximum weight of keyboard 6 kg
- colour black
- size (width x depth x height)
 600 x 253 x 56 mm (outside)
 555 x 250 x 54 mm (inside)



Keyboard clip

Order No. 04.99.0008

- for installation underneath the storage board or cockpit
- withdrawable by 200 mm and lowerable by 120 mm
- colour light-gray RAL 7035
- keyboard support with an integrated rest for the ball of the thumb size (width x depth) 406 x 280 mm
- maximum depth of keyboard 220 mm
- maximum height of keyboard 75 mm

Flat screen swivel arm

- The position of the swivel arm is individually adjustable (high degree of free space)
- suitable for flat screens 14 18 inch diagonal (corresponds to a weight of 2,5 - 8,5 kg without leg)
- covered cable guidance within the plastic covering
- The arm is rotating by maximum 360° and slewable to top and bottom by 0° 90°
- optionally for direct pluging in the universal adapter or lateral clamping to the work top



For direct pluging in the universal adapter: Order No.: 04.99.0009 For lateral clamping to the work top: Order No.: 04.99.0010



Extension arm: Order No.: 04.99.0011 Keyboard support: Order No.: 04.99.0012

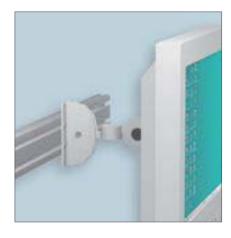
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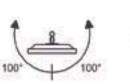
Mouse pad: Order No.: 04.99.0013

Flat screen holder

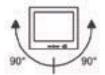
Order No.: 04.99.0014

- ideally suited for adaptation to a horizontal aluminium rail
- suitable for flat screens of 14 18 inch diagonal (2,5 to 8,5 kg)
- excellent swivel and rotation range





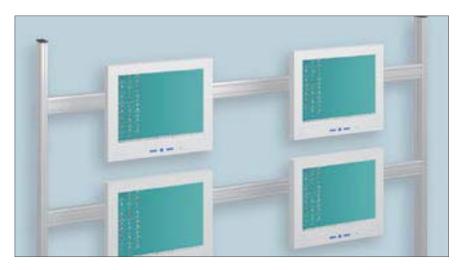




Horizontal aluminium rail

- for installation between the two rear aluminium leg system profiles
- steplessly adjustable in height, for installation of the above illustrated flat screen holder (Order No. 04.99.014)

Width of table	Order No.
1200 mm	04.99.0015
1600 mm	04.99.0016
1800 mm	04.99.0017
2000 mm	04.99.0018



Accessories for the laboratory

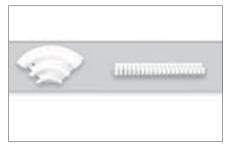


Measuring line holder

Order No. 04.99.0020 Anodized aluminium rail, 300 mm long with 21 plastic supporting elements for up to 100 measuring lines, simple fastening to the wall



Triple hose holder Order No. 04.99.0021 made of shock-proof plastic, simple fastening to the wall



Combined line holder Order No. 04.99.0022 Consisting of a measuring line holder anda hose holder, fitted on a melamine laminated chipboard, simple fastening to the wall



Measuring line trolley type 1 Equipment:

- basic frame 800 x 500 x 1200 mm
- (width x depth x height)
- optionally 1500 mm high
- with 4 steering rollers Ø 75 mm, 2 of them fixable
- 2 laboratory cord holder 300 mm long with 21 supporting elements each
- at the front 1 triple hose holder
- at the back 1 storage tray

Order No. 04.99.0023 for 1200 mm height Order No. 04.99.0024 for 1500 mm height





Measuring line trolley type 2 Equipment:

- basic frame 800 x 500 x 1200 mm (width x depth x height)
- optionally 1500 mm high
- with 4 steering rollers Ø 75 mm,2 of them fixable
- board with boreholes for suspending 2 x
 66 laboratory cords

Order No. 04.99.0025 for 1200 mm height Order No. 04.99.0026 for 1500 mm height





Soft PVC mats for table tops

available as fixed measurement or by the metre

Order No.
04.99.0027
04.99.0028

Size: 600 x 1000 x 2 mm By the metre viz. price per metre inclusive costs for cutting. Maximum width 1,22 m length of roll 10,00 m

Note:

When ordering please indicate the exact dimensions, for example 0.4.99.0027 with 1,35 m x 1,00 m (selling price = list price x 1,35)



BNC cable

Cable: RG 58 C/U Connector: double-sided BNC connector

Connector: double-sided bive connector		
Order No.	Design	
H40.60A	BNC cable 25 cm	
Н40.60В	BNC cable 50 cm	
Н40.60С	BNC cable 100 cm	



Testing spike with measuring line

Testing spike: with 4 mm lamellar plug Cable: highly flexible 0,75 mm, double insulated Length: 100 cm Colour: red Order No. H40.52A



Clamping spike

Clamping spike: with spring hook pair Connection socket: for safety plug Operating voltage: max. 1000 V AC/DC Current: max. 1 A to 40° C Total length: approx. 190 mm (without safety plug) Colour: red Order No. H40.52B



High-current clamping spike

Clamping spike: with claw gripper Connection socket: for safety plug Operating voltage: max. 1000 V Current: max. 20 A to 40° C Clar gripping width: max. 20 mm Total length: approx. 130 mm (without safety plug) Colour: black Order No. H40.52C



Safety short-circuit bar with outputs for safety plugs at the back Distance of pins: 19 mm Temperature range: -10° C to +70° C Constant current: max. 32 A Order No. H40.58A



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A Quadrupole pliers (1 pair) Cable: 70 cm long Pliers: electrically reciprocally isolated clamping jaws Opening of pliers: max. 15 mm Constant current: max. 0,5 A Plug: 4 safety plugs Order No. H40.54A



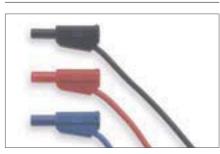
Adapter bushing – red flexible cord Safety clamping plug for flexible cords Cord cross section: 0,12 mm² - 2,5 mm² Order No. H40.56A



Adapter bushing – black flexible cord Safety clamping plug for flexible cords Cord cross section: 0,12 mm² - 2,5 mm² Order No. H40.56B



Adapter shockproof socket Change-over from shockproof socket connection without protective conductor to 4 mm safety sockets Order No. H40.56C



Laboratory cable

Cable: highly flexible silicone line -50°C to +180° C, resistant against soldering iron

+300° C/105

Connector: double-sided cascading connector

Socket parts -10°C to +80° C

Constant current: maximum 32 Amp.

Operating voltage: maximum 500 volt Contact resistance: 0,3 m Ω

Order Ne Design

Order No.	Design
H40.50A	Laboratory cable 25 cm red
H40.50B	Laboratory cable 25 cm blue
H40.50C	Laboratory cable 25 cm black
H40.50D	Laboratory cable 50 cm red
H40.50E	Laboratory cable 50 cm blue
H40.50F	Laboratory cable 50 cm black
H40.50G	Laboratory cable 100 cm red
H40.50H	Laboratory cable 100 cm blue
H40.50K	Laboratory cable 100 cm black

EGB Working place equipment

The EGB programme of accessories from erfi leaves nothing to be desired with respect to completion and retrofit. Some system components are required for the equipment of a modern EGB-conform working place. In particular the standards IEC 61340-5-1 and DIN IEC 47 (Sec) 1330 give information about the requirements of ESD working places and ESD protection zones.

Conductive working mats either of fixed dimensions or from a roll

- two-layer, hard-wearing synthetic rubber coating
- solder tin and heat resisting, abrasion-proof, halogen-free,
- volume conductive, conductive bonding is not required
- thickness of material: 2 mm
- discharge resistance RA as per EN 61340-5-1: 10 6 10 $^{7}\,\Omega$

Order No.	Colour	Dimensions
04.99.0100	grey	From the roll: 1220 mm x 10 m
04.99.0101	grey	with rounded off corners, made with 2 press-studs 10 mmand 1 discharge cable, smooth (1 M Ω)

Width of roll 1.000 mm and pieces cut-to-size on request.

04.99.0102	green	From the roll: 1220 mm x 10 m
04.99.0103	green	with rounded off corners, made with 2 press-studs 10 mm and 1 discharge cable, smooth (1M Ω)

Width of roll 1.000 mm and pieces cut-to-size on request.

04.99.0104	beige	From the roll: 1220 mm x 10 m
04.99.0105	beige	600 x 1000 mm with rounded off corners, made with 2 press-studs 10 mm and 1 discharge cable, smooth (1 M Ω)

Width of roll 1.000 mm and pieces cut-to-size on request.

04.99.0106	light-blue	From the roll: 1220 mm x 10 m
04.99.0107	0	600 x 1000 mm with rounded off corners, made with 2 press-studs 10 mm and 1 discharge cable, smooth (1 M Ω)

Width of roll 1.000 mm and pieces cut-to-size on request.

Conductive floor mats and working mats resp. of 2,5 mm thickness

- two-colour caoutchouc covering with dotted pattern
- discharge resistance of RA<10⁶ Ω as per EN 61340-5-1 with a smooth surface
- thickness of material 2,5 mm, hardly inflammable B1 as per DIN 4102, section 1
- floor mat and table mat of the same pattern (dust-gray, alternatively light-gray)
- inclusive 2 press-studs each and 1 discharge cable
- volume conductive, conductive bonding not required

Order No.	Colour	Dimensions	Туре
04.99.0110	dust-gray	2000 x 1200 x 2,5mm	floor mat
04.99.0111	dust-gray	1000 x 600 x 2,5mm	table mat
04.99.0112	light-gray	2000 x 1200 x 2,5mm	floor mat
04.99.0113	light-gray	1000 x 600 x 2,5mm	table mat







Solid rubber lattice mat

Mat for repairs and for manufacture/installation. Screws and nuts are caught due to the structure.

Order No.	Size	Conductive
04.99.0150	540 x 380 x 25 mm	no
04.99.0151	540 x 380 x 25 mm	yes
04.99.0152	625 x 375 x 20mm	no
04.99.0153	625 x 375 x 20mm	yes
04.99.0154	700 x 450 x 20mm	no
04.99.0155	700 x 450 x 20mm	yes



Earthing module

with integrated 1 MΩ protective resistor, shockproof earthing plug for connection to a shockproof socket, 6 x push-button connection 10 mm

Order No. 04.99.0160



Earthing module

with integrated 1 MΩ protective resistor for threaded fixing on or under the table, 1 x pin mounting box, 2 x push-button 10 mm Order No. 04.99.01601



Spiral cable

with integrated 1 M Ω protective resistor at both sides with 4 mm push-button, for connection of the working mats with the safety wrist strap 04.99.0162 Order No. 04.99.0163



Spiral cable

with integrated 1 $M\Omega$ protective resistor, with 4 mm push-button and bush plug, for connection of the working mats with the earthing module 04.99.0161 Order No. 04.99.0164





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Safety wrist strap

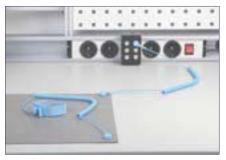
with integrated 1 MΩ protective resistor with elastic, adjustable special tissue, antiallergical. 4 mm push-button connection, suitable for connection to a spiral cable 04.99.0163

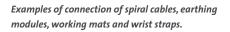
Order No. 04.99.0162



Spiral cable

with integrated 1 M Ω protective resistor, with 4 mm push-button and 10 mm pushbutton, for connection of the working mats with the earthing module 04.99.0160 Order No. 04.99.0165





Spannfix articulated standing vise

Spannfix articulated standing vise

The clamping vise can be equipped with various components for the required application. It can be fastend to any work table of the series ABZ and varantec[®] without any problem.



Screw head

Technical data: Clamping pressure: 150 kp Clamping width: 70 mm Clamping depth: 38 mm Width of jaw: 50 mm Jaws: plastic Weight: 0,60 kg Order No. 04.99.0200



Universal clamping plate

Slots for current standardized screws for installing prototypes or for holding for example tuners, line transformers, loudspeakers etc. Weight: 0,10 kg. Order No. 04.99.0203



Spannfix leg with ball joint With clamp fixing to be screwed to a work table of a maximum thickness of the table top of 80 mm. Weight: 0,95 kg. Order No. 04.99.0206





Fixable clamping width, any extension possible at any time, work-appropriate clamping by adjusting the central position, contact-proof support, tight clamping fit of printed circuit boards by a built-in spring system. Order No. 04.99.0201





Covering plate for tipped frames For the use with 04.99.0201. Covered with 20 mm foam material. Components of different sizes are so pressed-in that soldering is possible after turning. Size: 240 x 130 mm, Weight: 0,28 kg. Order No. 04.99.0202



Angle adapter

As accessory unit to be used for every working head, allows an even bigger turning circle. Weight: 0,08 kg. Order No. 04.99.0204



Spannfix leg with ball joint With screw-type console and threaded tenon M 12 x 1,5 for screwing.on. Base plate 150 x 105 mm. Weight: 0,80 kg. Order No. 04.99.0207



Quick turning device With a tightly connected angle adapter, allows very quick turning of the board holder with board and cover plate by 180°. Weight: 0,25 kg. Order No. 04.99.0205



Simple example for ordering: 04.99.0206 leg with ball joint 04.99.0204 angle adapter 04.99.0201 board holder

Programme of visitor chairs Leanos









Visitor chair L400 Four legs without = rests, stackable, height of back rest = 440 mm Frame: steel pipe, black Cloth cover: Numbers see page 85 Example of an ord = for the illustration opposite: Corder No.: L400 / 0232 Basic model / cover Model L400 / 0232 Garant blue

Visitor chair L450

Four legs with rests, stackable, height of back rest: 440 mm Frame: steel pipe, black Cloth cover: Numbers see page 85 **Example of an order for the illustration opposite:** Order No.: L450 / 0232 Basic model / cover Model L450 / 0232 Garant blue

Visitor chair L500

Four legs without arm rests, stackable, height of back rest: 440 mm Frame: steel pipe, black Cloth cover: Numbers see page 85 **Example of an order for the illustration opposite:** Order No.: L500 / 0232 Basic model / cover Model L500 / 0232

Visitor chair L550

Four legs with arm rests, stackable, height of back rest: 440 mm Frame: steel pipe, black Cloth cover: Numbers see page 85 **Example of an order for the illustration opposite:** Order No.: L5500 / 0232 Basic model / cover Model L550 / 0232 Garant blue 🖿 erfi

Programme of laboratory chairs Leanos









Swivel chair L101

Low back rest, **permanent contact mechanism**, back rest adjustable in height, basic adjustment of sitting height, height of back rest: 430 mm Steel foot: black, on request brillant silver or chromium-plated Cloth cover: Numbers see page 85 Castors: soft, for hard floors Order index / o hard, for soft floors Order index / 1 Example of an order for the illustration opposite:

Order No.: L101 . Basic

L101 / 0232 / 1 Basic model / cover / type of castors

Model L101 / 0232 Garant blue / hard castors for soft floors

Swivel chair L102

Low back rest, synchronous mechanism and regulation of weight, back rest adjustable

in height, basic adjustment of sitting height, height of back rest: 430 mm			
Steel foot:	black, on request brillant silver or chromium-plated		
Cloth cover:	Numbers see page 85		
Castors:	soft, for hard floors	Order index / o	
	hard, for soft floors	Order index / 1	

Example of an order for the illustration opposite:

L102 / 0232 / 1 Basic model / cover / type of castors Model L102 / 0232 Garant blue / hard castors for soft floors

Swivel chair L151

Order No.:

High back rest, permanent contact mechanism, back rest adjustable in height,

basic adjustment of sitting height, height of back rest: 530 mm			
Steel foot:	black, on request brillant silv	ver or chromium-plated	
Cloth cover:	Numbers see page 85		
Castors:	soft, for hard floors	Order index / o	
	hard, for soft floors	Order index / 1	

Example of an order for the illustration opposite:

Order No.: L151 / 0232 / 1 Basic model / cove

Basic model / cover / type of castors Model L151 / 0232 Garant blue / hard castors for soft floors

Swivel chair L152

High back rest, permanent contact mechanism, back rest adjustable in height,
basic adjustment of sitting height, height of back rest: 530 mmSteel foot:black, on request brillant silver or chromium-platedCloth cover:Numbers see page 85

Castors:

Numbers see page 85 soft, for hard floors hard, for soft floors

Example of an order for the illustration opposite:

Order No.:

L152 / 0232 / 1 Basic model / cover / type of castors Model L152 / 0232 Garant blue / hard castors for soft floors

Option: Arm rests (1 pair) adjustable in width and height, black, Order No. L952



Order index / o

Order index / 1

Option: Ring arm rests (1 pair) black Order No. L950



Cloth covers for models Lenos

Cloth cover Nora



NO 13



NO 12



NO 03



NO 02



NO 14



NO 32

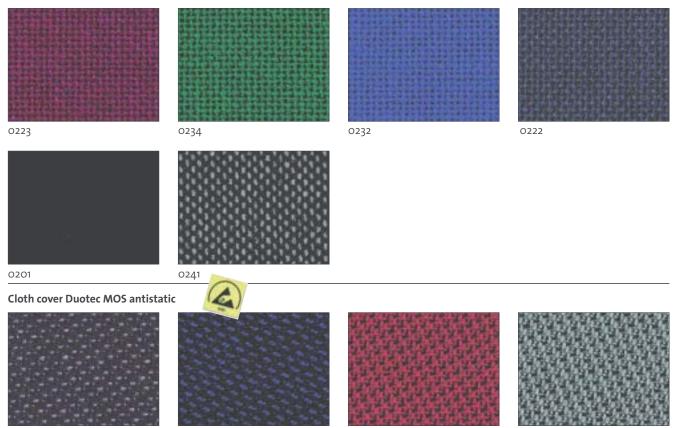


NO 04



NO 22





9801 9802 **Note:** Deviations in colour due to the print are possible. 9803

9811

Programme of working chairs Sintec for the production





ESD chair





Ring arm rest Order No. 9890-9900

Model Sintec 9810-1000

Contact back rest and adjustment of the seat's inclination, seat and back rest made of shock-proof and break-proof polypropylene. Textile or integral foam upholstery possible. Height of back rest 420 mm. Adjustment of the sitting height from 430 - 580 mm. With abrasion-proof plastic floor gliders. Order No. 9810-1000

Model Sintec 9803 -1000

same as model 9800-1000, however, with load-depending braking double-castors for hard floors.

Order No. 9803-1000

Model Sintec 9801-1000

same as model 9800-1000, however, adjustment of sitting height from 580 - 850 mm. With abrasion-proof plastic floor gliders and an all-around climbing assistant.

Order No. 9801-1000



Contact back rest. Adjustment of sitting height from 580 - 850 mm. Height of back rest 420 mm. With climbing assistant and gliders.

Order No. 9801E

Model 9800E

Model 9801E

same as model 9801E, however, adjustment of sitting height from 530 – 580 mm. With gliders.

Order No. 9800E

Model 9803E

same as model 9801E, however, adjustment of sitting height from 430 - 580 mm. With castors. Order No. 9803E



Comfortable arm rest, adjustable in height Order No. 9353-9900



Model 9865-2001

The integral foam upholstery allows a soft "sitting on an air cushion", is washable and easy to clean. It is resistant against slight acids and Iyes. Colour blue. Order No. 9865-2001



Model 9875 Soft textile upholstery consisting of hard-wearing cloth: Colours are selectable black: Order No. 9875-6801 grey: Order No. 9875-6802 red: Order No. 9875-6803



Model 9865E/2000 Conductive integral foam upholstery, easy to clean. Colour: black.



Model 9875E/9801 Conductive textile upholstery, colour: black. Also upholstery 9811, 9802 or 9803 possible, see page 85, cloth cover Duotec MOS antistatic

Swivel Chair, swivel stool, standing assistants

Wooden swivel chair for classrooms



Swivel stool



Standing assistant



Standing assistant



Model 9437-812-234

Adjustment of sitting height by a gas spring from 380 - 510 mm, revolving by 360°, seat and back rest made of multi-laminated beech wood, lacquered, natural-coloured. Sitting width: 415 mm, sitting depth: 390 mm, height of back rest: 280 mm, back rest flexible, five-leg base with plastic gliders, colour brillant silver Order No. 9437-812-234

Model 9437-801-234

same as model 9437-812,234, however,

Model 9467-3000

Height adjustment by gas spring with a simple ring release from 460 - 630 mm. Specially large seat, Ø 400 mm, made of multi-laminated beech wood, lacquered, natural-coloured. With abrasion-proof plastic gliders. Order No. 9467-3000 with load-dependent, braking, soft safety double castors. (See figure). Order No. 9437-801-234

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Model 9468-3000

same as model 9467-3000, however, with load-dependent, braking double-castors for hard floors. Order No. 9468-3000

Model 9469-3000

same as model 9467-3000, however, height adjustment of seat from 570 - 850 mm. With abrasion-proof plastic floor gliders and foot ring. Order No. 9469-3000

Model 9454-2000

Standing assistant with height adjustment of the seat by a gas spring from 650 - 850 mm. Seat made of integral foam, inclination to the adjustable by 10°. Integrated carrying handle.The seat is revolving by 360°. Solid, extremely flat base plate, Ø 470 mm. Metal parts coated with epoxy resin, anthracite.

Order No. 9454-2000, not conductive Order No. 9454E-2000, conductive



Model 9452-2000

Space-saving, foldble compact standing assistant made of precision steel pipe. Height adjustment of the seat from 650 - 850 mm by a grid mechanism. The seat is adjustable in inclination to the front by 10°. Seat made of integral foam with integrated carrying handle. Metal parts coated with epoxy resin, anthracite. Order No. 9452-2000

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