

AHP.cad

How to install and use

Install

Open the installation file and appear as follows:



The upper right corner shows all languages supported by software (GB stands for English). Then click the "Install" button below and choose installation path to install. It will take about ten minutes to install.

After installation, the following icon will appear on the desktop:



Later, you can enter AHP.cad through this icon.



Use

Stpe1:Click on the icon to enter the software, the following picture appears:



Click "PARTdataManager" to enter.

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Assistant:





Guided cylinder search with additional information (*recommended start*)



Cylinder suggestion:

Here we ask you for your requirements and will suggest various cylinder choices. Once you found a matching cylinder that meets you requirements, you can switch to the assistant and finalize your needs.



Classic screen:

This view is for advanced user. Here, by clicking on "AHP Guide", it is possible to open the assistant with the aid of the index tree.

As shown above, there are three options for the welcome interface after entering the software. If we don't know much about our cylinders, we suggest using the "Assistant" option.

If you already know something about our cylinders, you can click on "**Classic screen**" and the software will jump to the detail page of our cylinders.

Next, we will explain the function of "Assistant" and "Classic screen" respectively.



Assistant

1. When you move the mouse over an icon, the software explains the cylinder to help you choose.





2.After selecting the type of cylinder, the software will enter the guide page. Firstly, the cylinder diameter is selected according to the required push-pull force (Fd represents push force, Fz represents pull forece, KN).

P Merkle > Block Cylinder													
BZ / BZN / MB	BZ / BZR / BZH / BZ	P / BRB	- Block	c Cylind	er -								
Diameter Details													
			rl ([bar / l	kN1	[psi /	lbf1
Chart for selection	on of piston diar	meter	[bar /	kN]					•			(p)	
Operating	Pressure	50	bar	80	bar	100	bar	160	bar	250	bar	500	bar
For	ce	Fd	Fz	Fd	Fz	Fd	Fz	Fd	Fz	Fd	Fz	Fd	Fz
D Piston diameter [mm]	D1 Rod diameter [mm]												
16 mm	10 mm	0.80	0.49	1.29	0.78	1.61	0.98	2.57	1.57	4.02	2.45	8.04	4.90
25 mm	16 mm	1.96	1.16	3.14	1.85	3.93	2.32	6.28	3.71	9.82	5.80	19.63	11.59
32 mm	20 mm	3.22	1.96	5.15	3.14	6.43	3.92	10.29	6.27	16.08	9.80	32.17	19.6
40 mm	25 mm	5.03	3.06	8.04	4.90	10.05	6.13	16.08	9.80	25.13	15.32	50.27	30.6
50 mm	32 mm	7.85	4.64	12.57	7.42	15.71	9.27	25.13	14.84	39.27	23.18	78.54	46.3
63 mm	40 mm	12.47	7.44	19.95	11.91	24.94	14.88	39.90	23.82	62.34	37.21	124.69	74.42
80 mm	50 mm	20.11	12.25	32.17	19.60	40.21	24.50	64.34	39.21	100.53	61.26	201.06	122.5
100 mm	60 mm	31.42	20.11	50.27	32.17	62.83	40.21	100.53	64.34	157.08	100.53	314.16	201.0
125 mm	80 mm	49.09	28.98	78.54	46.37	98.17	57.96	157.08	92.74	245.44	144.91	490.87	289.8
								257.25	455.00				
160 mm	100 mm	80.42	49.01	128.68	78.41	160.85	98.02	257.36	156.83	402.12	245.04	804.25	490.0



3. Next, go to the detailed parameter list of the hydraulic cylinder, you can configure the parameters of the cylinder (mounting style, cushioning, etc.).





4. When all the parameters are selected, the **order no.** of the cylinder you selected will be displayed at the bottom of the page. This number will be used as the code for the cylinder you ordered. You can also click "**Add to basket**" to add the cylinder to your basket, and then click the **shopping cart** in the lower right corner to order online. After clicking the "**3D view**" button, you will see the cylinder 3D model displayed in the software. The two buttons at the bottom left of the page will take you back to the home page of the "Assistant" and the home page of the selected cylinder type.

Maximum 500 operating pressure	bar
order no. BZ 500.50/32.77.201.25	
3D view add to basket	
AHP Merkle Block Cylinder BZ / BZN / MBZ / BZR / BZH / BZP / BRB - Block Cylinder	
	<u>ا</u>



Part Selection

After entering the parts selection, you will see the following picture. The date on the picture represents the last update time of the software installed on your computer. You can keep the timeliness of software at any time by software's own online update function. (refer to the chapter "**update**").



Click the icon to enter the next step.



t selection				
🜍 🥞 🕥 🥰 Catalogs 🛶 AHF	9 Merkle			
Block Cylinder	Double-Lined Cylinder	🖆 Screw In Cylinder	💼 Flanged Cylinder	Hydraulic cylinder with extern:
22/08/2018	22/08/2018	22/08/2018	22/08/2018	22/08/2018
) Core Pull Unit	Short-Stroke Cylinder	📋 DIN Standard Cylinder	💼 Round Cylinder	🛑 Push Unit
22/08/2018	22/08/2018	22/08/2018	22/08/2018	22/08/2018
) AHP Standard Cylinder	Stamping Cylinder	🖆 Locking cylinder	🖆 Cube Cylinder	📋 Tie Rod Cylinder
22/08/2018	22/08/2018	22/08/2018	22/08/2018	22/08/2018
Accessories	Cylinder calculation	informs	📋 paper catalog	Copyright
22/08/2018		22/08/2018	PDF 22/08/2018	22/08/2018 copyright
AHP Merkle Konfigurator				
AHP Merkle Konfigurator				
22/08/2018				

In the next page, you'll see all of our cylinder types, which you can choose as needed.



File Export View Extras Window K STEP 👻 **F** Search and Part Selection K Transfer to CAD 🔻 **3 +** Reart view » 2D CAD formats 🔻 🗆 🥏 ABC Keyword(s) for full text search 😳 Search in 🥪 all catalogs 👻 foi 2D system neutral P MERKI ۲ .Ε × 2D transfer formats ٠ 🔍 Start search BEWEGT 3D CAD formats ۲ B Part view Part selection Search results Assistant Part comparison 3D system neutral ۲ BZ 500.50/32.77.201.25 □ × BZ 500.50/32.77.201.25 (DH=0) □ × 3D transfer formats ۲ 🕨 🚜 PDF (仅3D) Table List Others ||**AHD MERKLE** ត PDF Datasheet Piston diameter [... 50 🔁 D - 0 Extras Window File Export View R all step 🗸 🥝 🔂 Reart view K Transfer to CAD 👻 Search and Part Selection 2D CAD formats ۲ ABC Keyword(s) for full text search 🔻 🗆 🧼 🖸 Search in 🥪 all catalogs \star foi 2D system neutral HP ME × 2D transfer formats 🔍 Start search 3D CAD formats Þ 🗞 Part view Assistant Part selection Search results Part comparison 3D system neutral 🕨 📑 DXF 3D BZ 500.50/32.77.201.25 BZ 500.50/32.77.201.25 (DH=0) □ × DXF Binary 3D 3D transfer formats Others IGES Table List ∢ [)⊧ 🗳 SAT - 🜖 🔁 D Piston diameter [... 50 🚊 STEP BEWEGT 🔁 D1 Rod diameter [mm] 32 • 0

When the cylinder is selected, you can export the 2D and 3D files of the cylinder in the menu below.:



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Attention:

	<u>Mindow ?</u> ch and Part Selection	Part view	» 🥰 Transfer to CAD	▼ 🕰 STEP 🔻 🎯 🕒	
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Catalogs	🤤 😜 🧐 🚱 Cat	talogs 🗝 AHP Mer	kle		
Classifications Favorites					
History Document scan Iter by manufacturer Catalogs	Block Cylinder	30/04/2018	Double-Lined Cylinder 30/04/2018	Rotary Drive Unit 30/04/2018	Screw In Cylinder 30/04/2018
Block Cylinder Quick delivery p BZ / BZN / MBZ BB / BRB / BRBN - BI BZ / EZN / BJC BV Z 250 - Block C W BZ 250 - Block C	Flanged Cylinder	30/04/2018	Hydraulic cylinder with externa 30/04/2018	al gi Core Pull Unit 30/04/2018	Short-Stroke Cylinder 30/04/2018
 Double-Lined Cylir Rotary Drive Unit Screw In Cylinder Hydraulic cylinder Hydraulic cylinder Core Pull Unit Short-Stroke Cylinn 	DIN Standard Cylin	nder 30/04/2018	Deper catalog 30/04/2018	Round Cylinder 30/04/2018	Push Unit 30/04/2018
 DIN Standard Cylir paper catalog Round Cylinder Push Unit AHP Standard Cyli Stamping Cylinder Cube Cylinder Tie Rod Cylinder 	AHP Standard Cylin	nder 80/04/2018	Stamping Cylinder 30/04/2018	Cube Cylinder 30/04/2018	C Tie Rod Cylinder
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	verriegelungszylin	ader 30/04/2018	Copyright 30/04/2018	AHP cylinder assistant AHP cylinder assistant 30/04/2018	guide_translation

When the yellow logo is on the icon, it is shown that this type of cylinder contains the cylinder of our **quick delivery program**. Choosing these cylinders you will get a quicker delivery date and a more favorable price.



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In addition, in our software, we also include a series of "**Cylinder calculation**" for hydraulic cylinders. You can open it in two ways:

💼 Block Cylinder	Double-Lined Cylinder	💼 Screw In Cylinder	🛑 Flanged Cylinder	💼 Hydraulic cylinder with extern:
22/08/2018	22/08/2018	22/08/2018	22/08/2018	22/08/2018
💼 Core Pull Unit	🖆 Short-Stroke Cylinder	📋 DIN Standard Cylinder	💼 Round Cylinder	🛑 Push Unit
22/08/2018	22/08/2018	22/08/2018	22/08/2018	22/08/2018
💼 AHP Standard Cylinder	🛑 Stamping Cylinder	🖆 Locking cylinder	💼 Cube Cylinder	💼 Tie Rod Cylinder
22/08/2018	22/08/2018	22/08/2018	22/08/2018	22/08/2018
Accessories	Cylinder calculation	💼 ahp.informs	🛑 paper catalog	Copyright
22/08/2018	22/08/2018	22/08/2018	PDF Addbe	22/08/2018 copyright
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AHP Merkle Konfigurator				
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Cylinder suggestion:

Here we ask you for your requirements and will suggest various cylinder choices. Once you found a matching cylinder that meets you requirements, you can switch to the assistant and finalize your needs.

In this calculator, you can find various calculators, such as the calculation of cushioning capacity, the calculation of cylinder force, pressure, piston speed and so on.





Update

Step1: Click the update button at the top left corner of the software.





Step2: The following operations are performed in the new window:

- A. Click "Catalog update"
- B. Click "Fetch Catalog List" and wait for it completing
- C. Click "Select all"
- D. Choose "Only keep the new version"

E. Choose "Install after download", then click "Download/install selected version" and wait for the installation completing.

Welcome Catalog update	
Settings Account: mailbox@ahp.de	Accoun
1.Btalog list	
🤔 Fetch Catalog List	Select all 📄 🧼 Select all downloaded but not yet installed catalogs
	Select all updates 🗌 🥔 Select all catalogs that have not been downloaded yet
0%	Filter:
2. Choose catalogs to download.	Sorting: Catalogs
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⊖ Keep all	
Only keep the new version	
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Save original files of new version	
✓ Install after download	
🔉 Download/install	
Download/install selected catalogs	
Copy after successful installation	

Step3: When the installation is completed, restart the software to use.



Get updated information

This software will be updated from time to time. If you want to receive an update reminder, you can follow these steps:

Step1: Click the update button at the top left corner of the software.

File Export View Extras Window		vation 🛛 🦧 Transfer to CAD 👻 🔏 STEP
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Filter by manufacturer Catalogs	E Contraction of the second se	
	Hydraulic cylinder with exter 22/08/2018	rn: Core Pull Unit
	Round Cylinder 22/08/2018	Push Unit 22/08/2018



Step2: Click "Settings" button.

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Step3: Click "Create new account".

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Step4: Register and login.

	Log In	
Username or email		
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Step5: Find the line "A".

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Step6: Find "AHP-Merkle" and tick in the box on the right.

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D MERKLE.	AHP-Merkle	~239.99 MB	08.04.2021	swedish spanish russi	
AITAE	Airtac	~195.85 MB	06.04.2021	spanish japanese italia	
	ako armaturen	~4.32 MB	19.12.2018	turkish I swedish I spanis	

After completing the above operation, you will receive email notification every time the software is updated. You can get the latest version of CAD software by following the operation in the "update" section above.