



# YARN MASTER® ZENIT\*

First Startup Step by Step Loepfe Brothers Ltd. Kastellstrasse 10 8623 Wetzikon/Switzerland

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# 1 Installation



# 2 Connections LZE-V

Front



USB interface (USB port) for import / export of settings and data as well as screenshots.

A removable cap protects the USB interface from dust and humidity.

Rear



| Marking    | Туре                       | Description   |  |  |
|------------|----------------------------|---|--|--|
| Power      | Sub D PSC                  | Power supply 24 VDC   |  |  |
|            |                            | Contact 1 (+) 24 VDC  |  |  |
|            |                            | Contact 2 not connected   |  |  |
|            |                            | Contact 3 (-) 0 VDC   |  |  |
|            |                            | ATTENTION Only 24 VDC may be supplied to this connection!                       |  |  |
| $\bigcirc$ | Threaded connection        | Protective ground   |  |  |
|            |                            | And this separate grounding point must be connected with the protective ground! |  |  |
| LOEPFE 1   | Sub-D,<br>9-pole connector | Connection of Loepfe 2-wire bus (L2B)   |  |  |
| PWR        | LED green / red            | Power supply OK   |  |  |
| HDD        | LED red                    | Compact-flash drive active  |  |  |

| Marking      | Туре                          | Description  |                   |  |
|--------------|-------------------------------|--|-------------------|--|
| Φ            | Microswitch<br>(Power ON/OFF) | LED green  | Tap<br>< 1 Sec.   | Switch to standby mode con-<br>trolled by operating system<br>(LED becomes orange)             |
|              |                               | LED green  | Press<br>> 1 Sec. | Only in emergencies!<br>Forced, uncontrolled switch<br>to standby mode<br>(LED becomes orange) |
|              |                               | 1  | Unsaved da        | ata are lost!  |
|              |                               | LED orange   | Tap<br>< 1 Sec.   | Start<br>(LED becomes green)   |
| LAN 1        | RJ45                          | Dedicated connection for LZE-V Faceless<br>IP: 192.168.1.200 (Default)<br>Attention: Mistakenly changing the LAN 1 IP address<br>might cause the LZE-V to lose the required communica-<br>tion link to the Savio PC! |                   | LZE-V Faceless<br>It)<br>anging the LAN 1 IP address   |
|              |                               |  |                   |  |
| LAN 2        | RJ45                          | Connection for network<br>IP: DHCP (Default)   |                   |  |
| ● <b>~</b>   | USB 2.0                       | USB port   |                   |  |
| ‡ <b>₽</b> ° | Display port (HDMI)           | DP, maximum resolution 1600 x 1200   |                   |  |
| COM 1        | Sub-D,<br>9-pole connector    | RS 485   |                   |  |
| COM 2        | Sub-D,<br>9-pole connector    | RS 232   |                   |  |





1 Main navigation

4

- 2 Menu contents (list, overview, details)
- 3 Navigation path
- 4 Selection bar for group/spindle or article
- 5 Message window
- 6 Messages requiring intervention
- 7 Data selection filter (Dashboard, Monitoring and Quality menus)
- 8 Login / access level
- 9 Language selection
- 10 Online help
- 11 Action buttons / function buttons
- 12 Connection status (Ethernet / MillMaster TOP / Remote / Data Exist)
- 13 Active user level / logged on user
- 14 Date / time
- 15 Software version
- 16 Switch-over Loepfe / Savio GUI (only LZE-V Faceless)

# Function Buttons



Language selection











List of messages requiring intervention







E



ave on USB stick

Data export / import



Back



Next



Edit settings



Confirm selection / input







Undo input



Start lot / group

Copy article



Adjust (groups/spindles in production)



Reset monitoring data / quality data



Change password



Logout / user logout



Add user



Delete user



Acknowledge last message



Acknowledge all messages



Firmware Update



Input information

## 4 Language Selection

- 1. Tap Language button.
- 2. Select desired operator language.



Login User Name

Foreman

Operator

Service

| Language | ×         |
|----------|-----------|
| English  | ¢¢        |
| Deutsch  | Korean    |
| Español  | Português |
| Français | Ру́сский  |

## 5 Login

1. Tap Login button.

| 2. | Select user "Foreman".                             |
|----|--|
|    | (Foreman login is required for all settings during |
|    | initial start-up.)                                 |

- 3. Tap password input field.
- 4. Enter Foreman password (=12911291).

Password Level

Foreman

Operator

Service

| ****** |  |
|--------|--|
|--------|--|

- 5. Confirm entry with 🗹.
- 6. Confirm password / Login with 🗹.

# 6 Set Date and Time

#### **SERVICE** > **Setup** > **Date and Time**

1. Activate the Edit mode by tapping 🖉.

2. Enter date/day.

- 3. Enter time (hour, minutes, seconds).
- 4. Confirm each entry with 🔽
- 5. Save date and time with 🗹.
- 6. Confirm pop-up "Save date and time settings" with 🥑





#### 7 **Firmware Update**

| SERVICE > | <b>System</b> | > Fir | rmware | Update |
|-----------|---------------|-------|--------|--------|
|-----------|---------------|-------|--------|--------|



#### Master Module, Bootloader and Firmware Versions

The versions shown in the "Master Module" field and in the "Spindles" field must match the versions shown in the "Firmware Archive" field.

- » Red version number: versions do not match
- » Grey version number: TK is offline

| Service  System  Firmware Update |            |              |            |            |             |
|----------------------------------|------------|--------------|------------|------------|-------------|
| Firmware Archive                 |            | Master Mo    | dule       |            |             |
| Master Module                    | 2.0.7.0    | Version      |            |            | 2.0.7.0     |
| Bootloader                       | 2.0.48.85  | Update State |            |            | Application |
| Firmware                         | 4.2.50.127 |              |            |            |             |
| Update Progress                  |            | Spindles     |            |            |             |
| Master Module                    | 100%       | Spindle      | Firmware   | Bootloader |             |
| TK (Bootloader / Firmware)       | 0 %        | 1            | 4.2.32.230 | 2.0.30.179 |             |
|                                  | Ú          | 2            | 4.2.32.230 | 2.0.30.179 |             |
|                                  |            | 3            | 4.2.50.127 | 2.0.48.85  |             |
|                                  |            | 4            | 4.2.50.127 | 2.0.48.85  |             |

#### Perform the Firmware Update

A firmware update must be performed if the versions do not match:

- 1. Activate the edit mode by tapping
- 2. Start the Master Module update with 💽.
  - » The status of the update is displayed in the progress bar.



It can take some time (30s) until the update is terminated and the respective next update button becomes active!

3. Start the TK (Bootloader / Firmware) update with 💽



» The status of the update is displayed in the progress bar.



- (Update Firmware) is displayed for all sensing heads which do not match.
- is displayed after a successful update.
- 4. Check firmware and bootloader version of the spindles.
- 5. Terminate the firmware update.

# 8 Check and Complete Base Settings

## SETTINGS > Machine

#### > Base Settings

1. Activate the edit mode by tapping



2. Check and complete the base settings as follows:

| Machine Type        | Read only                      |
|---------------------|--------------------------------|
| Machine Name        | Enter name (optional)          |
| MillMaster Link     | On / Off                       |
| Total Spindles      | Enter total number of          |
|                     | winding units of machine       |
| Yarn Count Unit     | Select unit (Nm, Ne, Tex, Den) |
| Sensing Head Type   | Installed sensing head type    |
|                     | (D, DF, DFP)                   |
| Splice Check Length | Use default setting            |
| Previous Shift      | km / kg                        |
|                     |                                |

| Base Settings       |                      |
|---------------------|----------------------|
| Machine Type        | Schlafhorst ACX5/AC6 |
| Machine Name        | MA1                  |
| MillMaster Link     | Off                  |
| Total Spindles      | 10                   |
| Yarn Count Unit     | Nm                   |
| Sensing Head Type   | DFP                  |
| Splice Check Length | 35cm                 |
| Previous Shift      | km                   |
|                     |                      |

- 3. Save settings with 🗹
- 4. Confirm pop-up "Save machine settings!" with 💟.
- 5. Return to the overview with

#### > Default Group Settings

- 6. Use default settings.
- 7. Return to the overview with

| 9.2mm |
|-------|
| 0%    |
| 0%    |
| On    |
| 40%   |
| 25%   |
|       |

#### > Default Data Acquisition

8. Use default settings.

| Default Data Acquisition |        |
|--------------------------|--------|
| Window Length            | 100 km |

#### Define a Group 9

#### **SETTINGS** > Group (List)

- 1. Select group no. 1.
- 2. Double-clicking group no. 1 in the list opens the overview of the respective group settings.
- Activate the edit mode by tapping 3.

| Settin<br>Grou | gs 🚬<br>up | Group ` | `G1 ` | List  |         |     |
|----------------|------------|---------|-------|-------|---------|-----|
| No             | . First    | Last    | тк    | Pilot | Status  | Lot |
| 1              | 1          | 5       | DFP   | 2     | Defined | DOI |
| 2              | 6          | 9       | DFP   | 2     | Defined | DON |

#### > Settings Group

- 4. First Spindle / Last Spindle: Enter spindle range (first and last spindle of the group)
- 5. Article: Tap entry field and select a predefined article from article list.

#### Settings Group First Spindle 1 Last Spindle 5 **Pilot Spindles** 2 Sensing Head Type DFP DOM Lot Article ARTICLE1

| Settings Optional             |            |
|-------------------------------|------------|
| Drum Pulse Length             | 9.2mm      |
| Reduction Fine Adjust         | 35%        |
| Reduction Cone Change         | 25%        |
| Bunch Monitoring              | On         |
| Threshold Static Yarn Signal  | 40%        |
| Threshold Dynamic Yarn Signal | 25%        |
| Fine Adjust Made              | Continuour |

> Settings Optional

Use default settings.

6.

7. Use default settings.

|    |      |       |          |      | $\frown$ |
|----|------|-------|----------|------|----------|
| 8. | Save | aroup | settinas | with | $\vee$   |





## 10 Start Group

#### **SETTINGS** > **Group** (List)

- 1. Select group no. 1.
- 2. Start group no. 1 with 🔘 .
- 3. Confirm pop-up"Start Group" with 🗹

 Settings
 `Group
 Gal
 List

 Group
 Image: Comparison of the set of the set

The adjustment is started:

» "Production" is displayed in column "Status" and "Active" in column "Adjust".

| No. | First | Last | тк  | Pilot | Status     | Lot   | Article | Adjust | DiaDi |
|-----|-------|------|-----|-------|------------|-------|---------|--------|-------|
| 1   | 1     | 60   | DFP | 6     | Production | LOT 2 | зосомв  | Active |       |

- » **Roll** (Adjust) is displayed for all sensing heads.
- 4. Start and monitor the respective number of pilot spindles individually.
  - » The Rd display goes out for each pilot spindle when adjustment is terminated.

After successful adjustment of all pilot spindles:

» "Completed" is displayed in column "Adjust"

| No | . First | Last | тк  | Pilot | Status     | Lot   | Article | Adjust    | DiaDi |
|----|---------|------|-----|-------|------------|-------|---------|-----------|-------|
| _  |         |      |     |       |            |       | *       |           |       |
| 1  | 1       | 60   | DFP | 6     | Production | LOT 2 | зосомв  | Completed | -     |

Afterwards, an adjustment must also be performed for each non-pilot spindle.

» The Rd display goes out for each non-pilot spindle when adjustment is terminated.

If "Completed [x]" is displayed after adjustment, it was not possible to complete adjustment with all pilot spindles. In this case it is recommended to repeat adjustment with other pilot spindles! The other spindles may be started only when adjustment status "Completed" is displayed!

# Sensing Head Display

| laga Tuma  |  |  |  |   | Sensing Head  |
|--|--|--|--|---|---|
| A1   | F 0 F00  |  | n - Nep - unclass  | ified   | Long - unclassifie  |
| E  | <b>5 0</b> 600   |  | 5 - Short - unclas   | sified  | Thin - unclassifie  |
| H1   |  |  |  |   |   |
| with • = class cut   | without • = channel cut  |  | 🔐 🦰 Off Count  |   | SFI/D   |
|  |  |  | 5 C Short Off Cou  | nt  | VCV   |
| C00  | d 🗖 🛛 🗤  |  | with • = minus   | s without   | • = plus  |
| with • = thin place  | without • = thick place  |  |  |   |   |
|  |  |  | Cluster  | nep   | Upper Yarn  |
| <b>5 1</b> S1  | r 🔒 R1   |  | 5 Cluster  | short   | Bunch   |
| <b>i</b> 11  | <b>[]</b>   01   |  | 📙 📒 Cluster  | long  |   |
| with • = bright  | without • = dark   |  | 占 📒 Cluster  | thin  |   |
|  |  |  |  |   |   |
| ut Type  |  |  | F (foreign mat   | ter)  | F Cluster   |
| n Nep  | 🧃 👝 Joint  | nep  | with • = brigh   | t without   | • = dark  |
| 5 Short  | Joint 5  | short  |  |   |   |
| Long   | Joint 📙  | long   | P (synthetics)   |   |   |
| E Thin   | Joint 🛃 🔓  | thin   | Zeroing  |   |   |
| with • = class cut   | without • = channel cut  |  |  |   |   |
| flashing display ind   | icates ALARM (selected no. of reper  | titions reached)   | flashing dis   | play indicates ALA  | ARM (selected no. of repetitions  |
| Loepfe   | icates ALARM (selected no. of repet  | titions reached)   | flashing dis   | play indicates ALA  | ARM (selected no. of repetition   |
| Loepfe   | icates ALARM (selected no. of repet  | titions reached)   | System Info  | play indicates AL/  | ARM (selected no. of repetitions  |
| Loepfe   | icates ALARM (selected no. of repet  | titions reached)   | System Info  | play indicates ALA  | ARM (selected no. of repetitions  |
| Loepfe   | icates ALARM (selected no. of repet  | <u>≤ +/- 10 %</u><br>> + 10 %                                | System Info<br>Adjust<br>Doffing   | play indicates ALJ  | RM (selected no. of repartitions  |
| Loepfe   | difference<br>difference   | <u>≤ +/- 10 %</u><br>> + 10 %<br>> - 10 %                    | System Info<br>Adjust<br>Doffing<br>Waiting for sp   | play indicates AL/  | NRM (selected no. of repetitions  |
| Loepfe<br>jindle<br>Yam runs – Diameter<br>Yam runs – Diameter<br>Yam runs – Diameter  | icates ALARM (selected no. of repet<br>difference<br>difference<br>difference  | titions reached)<br>≤ +/- 10%<br>> + 10%<br>> - 10%          | System Info<br>Adjust<br>Doffing<br>PS Waiting for sy<br>PS Waiting for ce   | play indicates AL/  | VRM (selected no. of repetitions  |
| Loepfe<br>indle<br>Yam runs – Diameter<br>Yam runs – Diameter<br>Yam runs – Diameter   | icates ALARM (selected no. of repet<br>difference<br>difference<br>difference  | titions reached)<br>≤ +/- 10%<br>> + 10%<br>> - 10%          | System Info<br>Adjust<br>Doffing<br>System for sy<br>Waiting for sy<br>Spinle lockor<br>Spinle lockor  | play indicates AL/<br>play indicates AL/<br>nindle communica<br>ntral unit parame<br>id, group not start(   | ARM (selected no. of repetitions tion ters ad   |
| Loepfe<br>indle<br>Varn runs – Diameter<br>Varn runs – Diameter<br>Varn runs – Diameter  | icates ALARM (selected no. of repet<br>difference<br>difference<br>difference<br>arm (alternating)   | titions reached)<br>≤ +/- 10 %<br>> + 10 %<br>> - 10 %       | System Info<br>Adjust<br>Doffing<br>S Waiting for se<br>Spindle locko<br>Reset   | play indicates AL/<br>play indicates AL/<br>nindle communica<br>ntral unit parame<br>rd, group not starte   | ARM (selected no. of repetitions tion ters ed   |
| Loepfe   | icates ALARM (selected no. of repet<br>difference<br>difference<br>difference<br>difference<br>arm (alternating)<br>y or coil failure (alternating)  | ≤ +/- 10% > + 10% > - 10%                                    | System Info<br>Adjust<br>Adjust<br>Adjust<br>Swaiting for sc<br>Spindle lockd<br>Reset<br>Update TK Fir  | play indicates AL/<br>play indicates AL/<br>indle communicat<br>entral unit parame<br>ed, group not starte<br>mware   | ARM (selected no. of repetitions tion ters ed   |
| Loepfe<br>indle<br>Varn runs – Diameter<br>Varn runs – Diameter<br>Varn runs – Diameter<br>Contentical Alarms  | icates ALARM (selected no. of repet<br>difference<br>difference<br>difference<br>arm (alternating)<br>r or coil failure (alternating)<br>er supply failure TK (alternating)  | ≤ +/- 10 % > + 10 % > - 10 % ]                               | System Info<br>Adjust<br>Adjust<br>Adjust<br>Waiting for sp<br>Spindle locke<br>Reset<br>Update TK Fir<br>Suctant Carte  | play indicates AL/<br>play indicates AL/<br>indle communicat<br>entral unit parame<br>ed, group not starte<br>mware   | ARM (selected no. of repetitions tion ters ed   |
| Loepfe<br>indle<br>Yam runs – Diameter<br>Yam runs – Diameter<br>Yam runs – Diameter<br>Contensional Alarms<br>Loginal Cutter supply<br>Loginal Cutter  | icates ALARM (selected no. of repet<br>difference<br>difference<br>difference<br>arm (alternating)<br>y or coil failure (alternating)<br>er supply failure TK (alternating)<br>al (alternating)  | (itions reached)<br>≤ +/- 10 %<br>> + 10 %<br>> - 10 %<br>a) | System Info<br>Adjust<br>Adjust<br>Adjust<br>Adjust<br>Bog<br>Waiting for sr<br>System Cuts<br>System Cuts<br>Adjust<br>Adjust<br>Adjust<br>Adjust<br>Adjust<br>Adjust<br>Adjust<br>Adjust<br>Adjust<br>Adjust<br>Adjust<br>Adjust<br>Adjust<br>Adjust<br>Adjust<br>Adjust<br>Adjust<br>Adjust<br>Adjust<br>Adjust<br>Adjust<br>Adjust<br>Adjust<br>Adjust<br>Adjust<br>Adjust<br>Adjust<br>Adjust<br>Adjust<br>Adjust<br>Adjust<br>Adjust<br>Adjust<br>Adjust<br>Adjust<br>Adjust<br>Adjust<br>Adjust<br>Adjust<br>Adjust<br>Adjust<br>Adjust<br>Adjust<br>Adjust<br>Adjust<br>Adjust<br>Adjust<br>Adjust<br>Adjust<br>Adjust<br>Adjust<br>Adjust<br>Adjust<br>Adjust<br>Adjust<br>Adjust<br>Adjust<br>Adjust<br>Adjust<br>Adjust<br>Adjust<br>Adjust<br>Adjust<br>Adjust<br>Adjust<br>Adjust<br>Adjust<br>Adjust<br>Adjust<br>Adjust<br>Adjust<br>Adjust<br>Adjust<br>Adjust<br>Adjust<br>Adjust<br>Adjust<br>Adjust<br>Adjust<br>Adjust<br>Adjust<br>Adjust<br>Adjust<br>Adjust<br>Adjust<br>Adjust<br>Adjust<br>Adjust<br>Adjust<br>Adjust<br>Adjust<br>Adjust<br>Adjust<br>Adjust<br>Adjust<br>Adjust<br>Adjust<br>Adjust<br>Adjust<br>Adjust<br>Adjust<br>Adjust<br>Adjust<br>Adjust<br>Adjust<br>Adjust<br>Adjust<br>Adjust<br>Adjust<br>Adjust<br>Adjust<br>Adjust<br>Adjust<br>Adjust<br>Adjust<br>Adjust<br>Adjust<br>Adjust<br>Adjust<br>Adjust<br>Adjust<br>Adjust<br>Adjust<br>Adjust<br>Adjust<br>Adjust<br>Adjust<br>Adjust<br>Adjust<br>Adjust<br>Adjust<br>Adjust<br>Adjust<br>Adjust<br>Adjust<br>Adjust<br>Adjust<br>Adjust<br>Adjust<br>Adjust<br>Adjust<br>Adjust<br>Adjust<br>Adjust<br>Adjust<br>Adjust<br>Adjust<br>Adjust<br>Adjust<br>Adjust<br>Adjust<br>Adjust<br>Adjust<br>Adjust<br>Adjust<br>Adjust<br>Adjust<br>Adjust<br>Adjust<br>Adjust<br>Adjust<br>Adjust<br>Adjust<br>Adjust<br>Adjust<br>Adjust<br>Adjust<br>Adjust<br>Adjust<br>Adjust<br>Adjust<br>Adjust<br>Adjust<br>Adjust<br>Adjust<br>Adjust<br>Adjust<br>Adjust<br>Adjust<br>Adjust<br>Adjust<br>Adjust<br>Adjust<br>Adjust<br>Adjust<br>Adjust<br>Adjust<br>Adjust<br>Adjust<br>Adjust<br>Adjust<br>Adjust<br>Adjust<br>Adjust<br>Adjust<br>Adjust<br>Adjust<br>Adjust<br>Adjust<br>Adjust<br>Adjust<br>Adjust<br>Adjust<br>Adjust<br>Adjust<br>Adjust<br>Adjust<br>Adjust<br>Adjust<br>Adjust<br>Adjust<br>Adjust<br>Adjust<br>Adjust<br>Adjust<br>Adjust<br>Adjust<br>Adjust<br>Adjust<br>Adjust<br>Adjust<br>Adjust<br>Adjust<br>Adjust<br>Adjust<br>Adjust<br>Adjust<br>Adjust<br>Adjust<br>Adjust<br>Adjust<br>Adjust<br>Adjust<br>Adjust<br>Adjust<br>Adjust<br>Adjust<br>Adjust<br>Adjust<br>Adjust<br>Adjust<br>Adjust<br>Adjust<br>Adjust<br>Ad     | play indicates AL/<br>play indicates AL/<br>indle communicat<br>entral unit parame<br>ed, group not starte<br>mware   | Ition   |
| Loepfe<br>pindle<br>Varn runs – Diameter<br>Varn runs – Diameter<br>Varn runs – Diameter<br>Varn runs – Diameter<br>Carter supph<br>Loepfe<br>Carter supph<br>Carter supph<br>Ca | icates ALARM (selected no. of repet<br>difference<br>difference<br>arm (alternating)<br>/ or coil failure (alternating)<br>er supply failure TK (alternating)<br>d (alternating)<br>d (alternating)  | titions reached)<br>≤ +/- 10 %<br>> + 10 %<br>> - 10 %<br>a) | System Info<br>Adjust<br>O Doffing<br>Spindle lock<br>Reset<br>Update TK Fir<br>System Cuts<br>Cut by spindle<br>Cut by spindle  | play indicates AL/<br>indle communica<br>entral unit parame<br>ed, group not starte<br>mware  | Ition   |
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| Loepfe   | icates ALARM (selected no. of repet<br>difference<br>difference<br>difference<br>arm (alternating)<br>y or coil failure (alternating)<br>er supply failure TK (alternating)<br>al (alternating)<br>d (alternating)<br>d (alternating)<br>e timeout (alternating)             | titions reached)   | System Info<br>System Info<br>Adjust<br>Doffing<br>System Carls<br>Waiting for sr<br>Waiting for sr<br>Waiting for sr<br>Spindle lockt<br>Reset<br>Update TK Fir<br>System Cuts<br>Cut by spindle<br>Cut by spindle<br>Cut by spindle<br>Dirightees<br>Dirightees<br>Dirightees<br>Dirightees  | play indicates AL/<br>play indicates AL/<br>indle communicat<br>entral unit parameter<br>at, group not starter<br>mware<br>est / Reset button)<br>regulator out of lin<br>regulator out of lin  | VRM (selected no. of repetitions tion ters ad   |
|  | icates ALARM (selected no. of repet<br>difference<br>difference<br>difference<br>arm (alternating)<br>y or coil failure (alternating)<br>er supply failure TK (alternating)<br>al (alternating)<br>d (alternating)<br>e timeout (alternating)                                | tilions reached)<br>≤ +/- 10 %<br>> + 10 %<br>> - 10 %<br>a) | System Info<br>System Info<br>Adjust<br>Doffing<br>System Control<br>System Cuts<br>Cut by spindle<br>Cut by   | play indicates AL/<br>indle communica<br>indra unit parame<br>id, group not starte<br>mware<br>est / Reset button)<br>regulator out of lin<br>egulator out of lin   | VRM (selected no. of repetitions tion ters ed init init itit  |
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