Comput-Ability® Estimating Systems
Mechanical Insulation's Key Estimator™ - Version 20-1

MIKE™ What’s New in MIKE 20.

There are many new enhancements and features in MIKE 20. But the system still has the same look and feel as MIKE 10 so the transition time to become familiar MIKE 20 will be minimum.
Number 1: Estimates tab

A larger Estimate Number. The Estimate Number was changed from a 6-digit numeric to an 8.2-digit numeric field.

What is nice about this change is that allows you to group estimates together by using the 2 decimal digits to the right of the decimal point.

Number 2:

New and enlarged Estimate Master Fields.

Estimate Short Name and Location increased to 50 characters.

New Estimate Long Name and Estimate Long Location fields added. With the ability to change font.
Number 2: Estimates tab (continued)

Three Additional Date Fields with user defined Titles.

A Secured/Won Field that shows up on the Estimate List Tab.

This Secured/Won Field is also a selection field in the Print Estimate Master List program.

A Unit Price Estimate check box. This new feature will be explained in more detail later in this document.
Number 3: Systems tab

The biggest change in the Pipe and Duct Systems tab is the addition of a new check box with the column header of ☑️. This check box tells the system that there is a separate Specification for the oversize fitting different than for the pipe and all other fittings. By checking this box two Sys/Spec Linkage records are created. This will be explained in more detail in Linkage tab section further on in this document.

The other change is for the VTO6 color selector and a button to update the color in the Systems Library table.

Note:

Visual TakeOff® version 6 (VTO6) is the upgrade from Visual TakeOff® version 5 (VTO5). VTO6 Will be explained in more detail in another document and will have new how to videos to show how to use it. All VTO5 data and drawing will be converted to VTO6 when you convert an estimate from MIKE 10 to MIKE 20.
Number 4: Specifications tab

A lot has changed in the Pipe tab under the Specification tab.

The foremost change is that the Specification (Spec) Code has been increased from a 3-character alpha field to a 10-character alpha field. And the Spec Description has been increased to 50 characters.

The Material Code now is attached to a Vendor Code. This isn’t a change to the system that is an enhancement for the estimator, it was done for Comput-Ability®. The MIKE™ System has at least 75 unique Vendors with close to 1,300 unique Material Codes with over 300,000 individual prices in its Price database. Making a unique 4-character Material Code was becoming very difficult. Attaching the codes together allows us to reuse a Material Code.
Number 4: Specifications tab (continued)

A third **Count Item** has been added to the Spec.

![Image of software interface showing Count Items]

**Note:** The different LF/EA

Shown below is the Estimate attached Count Item table please note that the Count Item 2 is calculated at every 10 LF of Pipe up to 6” Pipe Size and Count Item 3 is calculated at every LF of Pipe from 6.5” and above Pipe Sizes.

![Image of Estimate Count Item table]
Number 4: Specifications tab (continued)

A new **Oversize End Caps** button.

If there are not any **Oversize End Caps** the *button* font will be a regular font. If there are **Oversize End Caps** then the *button* will be a **bold** font.

Clicking on the *button* brings up the following **Oversize End Caps** screen:

If the **Oversize End Caps** are not set up then this screen’s field will be blank.

You will need to Select a valid Material Code and enter the quantity of **Oversize End Caps** each of the **Oversize End Fittings**. BVs, FPs, FVs, and Strns.

The **Material Type** for **Oversize End Caps** be a Jacket ‘J’ Material Type or Each ‘E’ Material Type.

The quantity of **Oversize End Caps** will auto calculated based on the quantity of the **Oversize End Fittings**.

**Note:**

**ONLY Material** cost will be added to the Estimate **NO Labor**. The **Labor** comes from the **Oversize Size Fitting** they are attached to.
Number 4: Specifications tab (continued)

Not much has changed in the Duct tab under the Specification tab.

We have added three new Duct Accessory calculation types.

**CJ - Circumferential Joint**

**LJ – Longitudinal Joint**

These two types are like JL–Joint Length but separates the LF into Circumferential LF and the Longitudinal LF.

**SO Stretch Out On Center** – This works just like the Pipe SO works but uses the OD of outside of the Duct plus the Insulation thickness.
Number 5: Linkage tab

The biggest change in the Linkage tab is the addition of a new Oversize Spec Linkage column with the column header of O. If a System in the Systems tab has the Separate Oversize Fitting Specification check box checked an additional record will be auto created here with an O in the Oversize Spec Linkage column. This tells the system to use a separate Spec for any oversize fittings.

The examples below show the REF System that has Flex Tubing on the pipe a regular fitting and Flex Sheet on the oversize fittings.

The CHW System and the STM System have sectional pipe insulation and have Pipe & Tank Wrap on the oversize fittings.

The other changed in the Pipe and Duct Systems tab under the Linkage tab is the SPEC Code now is 10-character alpha.
Number 5: Linkage tab (continued)

VTO6 color selector *button* is similar to the one in the Systems tab.

Another new feature that isn’t in MIKE 20 yet but will be soon is the ability to change a System/Spec Linkage by Insulation OD range instead of Pipe Size range.
Number 6: Manual Takeoff tab

The Manual Takeoff screens now open with a Start Takeoff button if there is no detail takeoff records. Click the Start Takeoff button to do manual takeoff.

If there are detail takeoff records it acts like it always has in MIKE 10 except no VTO6 detail records will display in this screen. You can now Override the PSI of FPs and FVs on the Detail Takeoff line.
Number 6: Manual Takeoff tab (continued)

There are Three (3) new **Accessory** calculation code in Build Equipment Specs.

**JL-Joint Length**

**JJ-Jacket Joint**

**BA-Butt Area**
Number 6: Manual Takeoff tab (continued)

There is now a new **Assemblies tab** in the **Manual Takeoff tab**.

In **MIKE 10** these **Assemblies (Connection Codes)** were stored in a **Library Table**. In **MIKE 20** they are copied from the **Library Table** into the **Estimate**. They work just like they in **MIKE 10** and **VTO5**, but now they can be modified and made **Estimate Specific**.
Number 7: VTO6 Takeoff tab

They VTO6 Detail Takeoff now displays in the VTO6 Takeoff tab.
Number 8: Recalculate tab

The Recalculate screen is similar to the screen in MIKE10 with some of the buttons moved around to make space. The new item is that there is now a third sort level called Sub Sub Area in the Recalculate screen.

As you can see below in the Recap screen has many more buttons to report on this Sub Sub Area sort level. All Reports under the Reports tab all have this Sub Sub Area.
Number 9: Recap tab

Besides all the new Sub Sub Area Recaps the biggest changes in the Recap tab are in the Total Estimate Recap.

There is now a new Other Adds/Subcontracts section. This section works like Lump Sum Adds but is after the Overhead and Profit sections and just before the Grand Total. There is also a new button to spread this cost by Area.
**Lump Sum Adds** also has this new *button* to spread this cost by *Area*.

In the near future we will be adding to the **Other Hours** screen the ability to **Round Up Hours** by *Area*. 
Number 10: Reports tab

All the Reports that have the Area and Sub Area totaling options now have the new Sub Sub Area option.

The biggest change though is in how Unit Prices are calculated. In MIKE 10 the Unit Prices Size/Thickness ranges and Calculation were done in the Unit Price tab under the Reports tab.
Number 10: Reports tab (continued) Unit Prices

Now when you Create New Estimate or create one from Create from Old there is a new Unit Price Estimate check box.

NOTE: Do Not use an Estimate that you need to save. It is best to Create from Old and create an Estimate with all the Systems, Spec, Linkages and Bid Recap information, but NO Detail Takeoff records. The Detail Takeoff records will be created in the Linkage tab.

In the Linkage tab you will set the Pipe Size/Thickness ranges and then create Detail Takeoff records by clicking on the Create button in the UP Details column.
Number 10: Reports tab (continued) Unit Prices

*Click on the Create button in the UP Details column.*

The Unit Prices process created **45 Detail Records**.
Number 10: Reports tab (continued) Unit Prices

The only change in the Unit Price Report tab is the button that used to read Generate now reads Copy Pipe Details. After that Unit Price works as it did in MIKE 10.