$$
\begin{array}{ccc}
\mathbf{C}_1 & \xrightarrow[\mathbf{MonCat}]{f_1} & \mathbf{D}_1 \\
{\scriptstyle F}\downarrow\mathbf{MonCat}\quad\mathbf{MonCat}\uparrow{\scriptstyle G} & & \\
\mathbf{C}_2 & \xrightarrow[f_2]{\mathbf{MonCat}} & \mathbf{D}_2 \\
{\scriptstyle H}\downarrow\mathbf{MonCat}\quad\mathbf{MonCat}\uparrow{\scriptstyle I} & & \\
\mathbf{C}_3 & \xrightarrow[f_3]{\mathbf{MonCat}} & \mathbf{D}_3
\end{array}
\qquad
\begin{array}{ccc}
\mathbf{C}_1 & \xrightarrow[\mathbf{MonCat}]{f_1} & \mathbf{D}_1 \\
{\scriptstyle F\,\mathring{,}\,H}\downarrow\mathbf{MonCat}\quad\mathbf{MonCat}\uparrow{\scriptstyle I\,\mathring{,}\,G} & & \\
\mathbf{C}_3 & \xrightarrow[f_3]{\mathbf{MonCat}} & \mathbf{D}_3
\end{array}
$$