How the **CellMek SPS Sample Preparation System** helps to

REDUCE MANUAL PROCESSING

Standard Workflow

- Create worklist — Verify test request in LIS; Program worklist on cytometer; Check SOP
- Obtain cell count
- Transfer specimen into tube
- Cell wash in centrifuge — Add wash buffer to tube; Take tube to centrifuge; Program centrifuge for wash step; Wait for centrifuge
- Decant supernatant & resuspend
- Prepare reagent cocktail — Uncap reagent vials; Pipette to tube; Recap reagent vials
- Pipette reagent cocktail to sample tubes
- Mix and incubate
- Add lysis reagent
- Mix and incubate
- Cell wash in centrifuge — Add wash buffer to tube; Take tube to centrifuge; Program centrifuge for wash step; Wait for centrifuge
- Decant supernatant & resuspend
- Transfer carousel with prepared samples to cytometer for acquisition

Connected CellMek SPS Workflow

- Obtain cell count
- Scan sample barcode
- Assign panel based on LIS task
- Load sample to CellMek SPS & start workflow
- Read barcode, match schedule & rock cassette
- Transfer specimen to spin wash chamber & wash
- Transfer specimen to reaction plate
- Transfer liquid antibodies to specimen in reaction plate
- Mix and incubate
- Lyse specimen in reaction chamber
- Mix and incubate
- Transfer specimen to spin wash chamber & wash
- Transfer sample to reaction plate & resuspend
- Transfer sample to output carousel
- Transfer carousel with prepared samples to cytometer for acquisition