You said: swan neck MIG/CO2

A **swan neck** (also called a goose neck) is the curved front-end metallic tube of a MIG/CO2 welding torch that connects the handle to the consumables like the contact tip, gas diffuser, and nozzle. It serves as a vital conduit to guide the solid welding wire and distribute the shielding gas (pure CO_2 or an Argon/CO_2 mix) directly into the weld pool. [1, 2, 3, 4, 5]

You said: swan neck MIG/CO2

2:14 pm

A **swan neck** (also called a goose neck) is the curved front-end metallic tube of a MIG/CO2 welding torch that connects the handle to the consumables like the contact tip, gas diffuser, and nozzle. It serves as a vital conduit to guide the solid welding wire and distribute the shielding gas (pure CO_2 or an Argon/CO_2 mix) directly into the weld pool. [1, 2, 3, 4, 5]

Key Functions

- **Maneuverability:** The ergonomic bend (typically between 30° to 60°) gives welders better control and allows them to reach restricted or tight joints easily. [1, 2, 3]
- **Utility Transmission:** It simultaneously transfers the heavy electrical welding current to the contact tip and channels the shielding gas. [1, 2]
- **Internal Protection:** It houses a specialized torch liner that keeps the wire feeding smoothly without kinking or creating friction. [1, 2]

Popular Types and Configurations

MIG/CO2 swan necks are categorized by their industry-standard model compatibility, duty cycle ratings, and cooling methods: [1, 2, 3]

- **Light-Duty (Air-Cooled):**
  - **15AK / MB15:** Highly popular for light sheet metal fabrication and DIY projects. They are generally rated up to 180 Amps for pure CO_2 gas. [1, 2, 3, 4]
- **Medium to Heavy-Duty (Air/Gas-Cooled):**
  - **24KD / MB24:** Rated around 250 Amps; optimized for general metalworking and automotive repairs.
  - **25AK / MB25:** Balanced mid-tier neck rated up to 230 Amps, popular in workshops.
  - **36KD / MB36:** Heavy-duty air-cooled configuration designed for currents