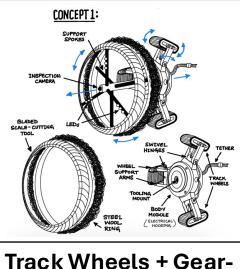
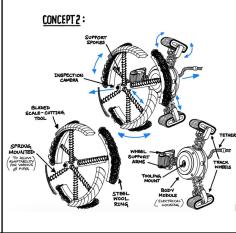
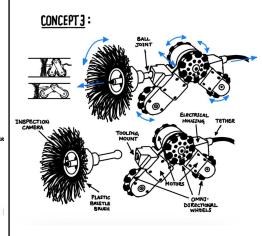
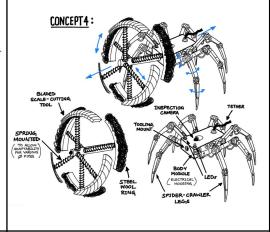
OPTION	MOVEMENT	SIZING	CLEANING
1		GEAR - LINKAGE	PLASTIC
	OMNI-DIRECTIONAL WHEELS	MECHANISM	BRISTLES
2	TRACK WHEELS	SHUTTER	STEEL
3			
	SPIDER LEGS	SPRING LOADED	SANDING ATTACHMENT

Criteria **Description**









Track Wheels + Gear-Linkage + Steel Wood

Track wheels are capable of threading rough terrain within the pipe, driven and connected using gear/linkages to adapt to various diameter pipes, and equipped with a steel wool rotatory tool for scrubbing debris.

Track Wheels + Spring-Loaded + Steel Wood

Track wheels are capable of threading rough terrain within the pipe, connected using springs to adapt to various diameter pipes, and equipped with a steel wool rotatory tool for scrubbing debris.

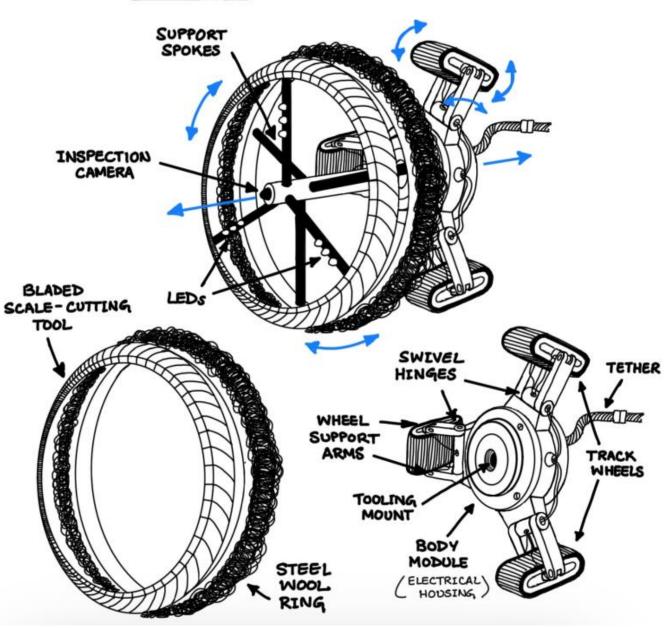
Omni-Directional Wheels + Gear-Linkage Mechanism + Plastic Bristles

Omni wheels allow the robot to be more mobile and navigate bends more efficiently, driven and connected using gear/linkages to adapt to various diameter pipes, and equipped with a plastic bristle rotatory tool for scrubbing debris without risk of damaging the pipe lining.

Spider Legs + Gear-Linkage + Steel Wood

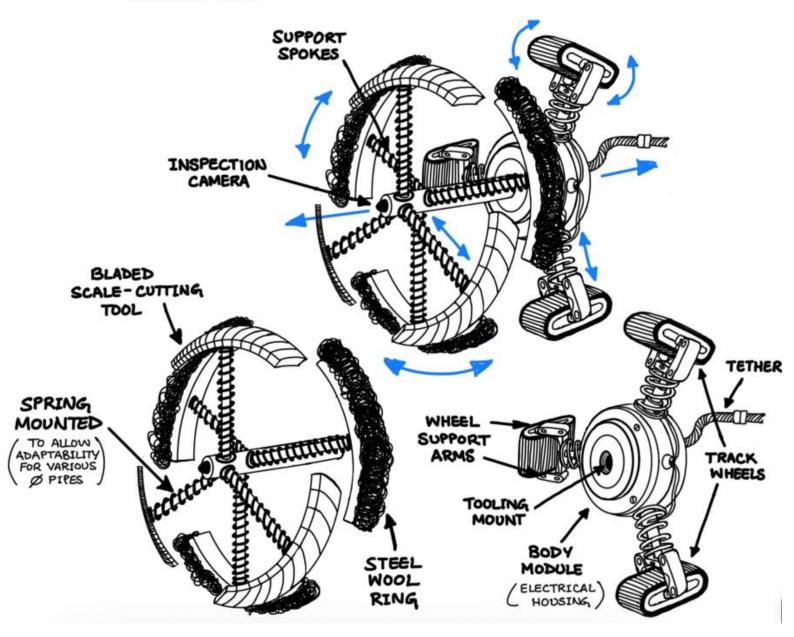
Spider legs are capable of threading rough terrain while maintaining agility within the pipe, connected using gear/linkages to adapt to various diameter pipes, and equipped with a steel wool rotatory tool for scrubbing debris.

CONCEPT 1:



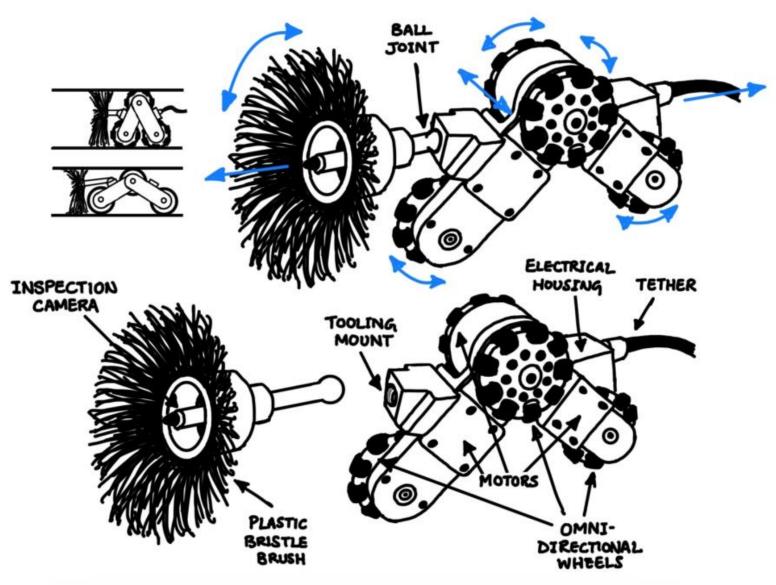
Track Wheels + Spring-Loaded + Steel Wood

CONCEPT2:

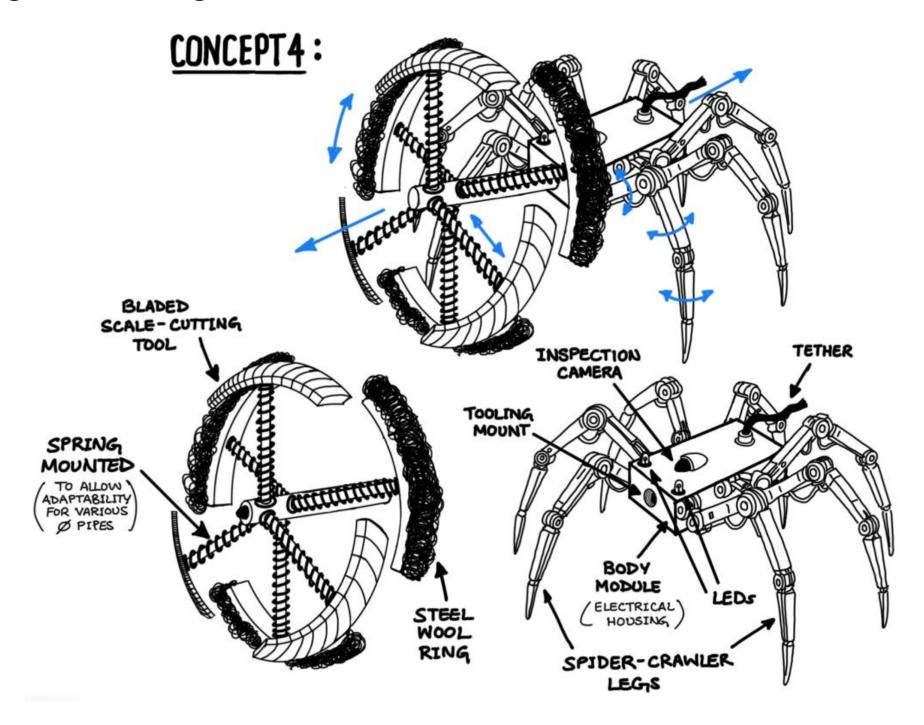


Omni-Directional Wheels + Gear-Linkage Mechanism + Plastic Bristles





Spider Legs + Gear-Linkage + Steel Wood



Criteria	C1	C2	C3	C4
Size	3	1	4	2
Complexity	2	4	3	1
Mobility	4	2	3	1
Cost	3	4	1	2
Waterproofing	3	2	4	1
Mass	1	3	2	4
Speed	2	1	4	3
Durability	4	3	2	1
Precision	4	3	1	2
TOTAL	26	23	24	17