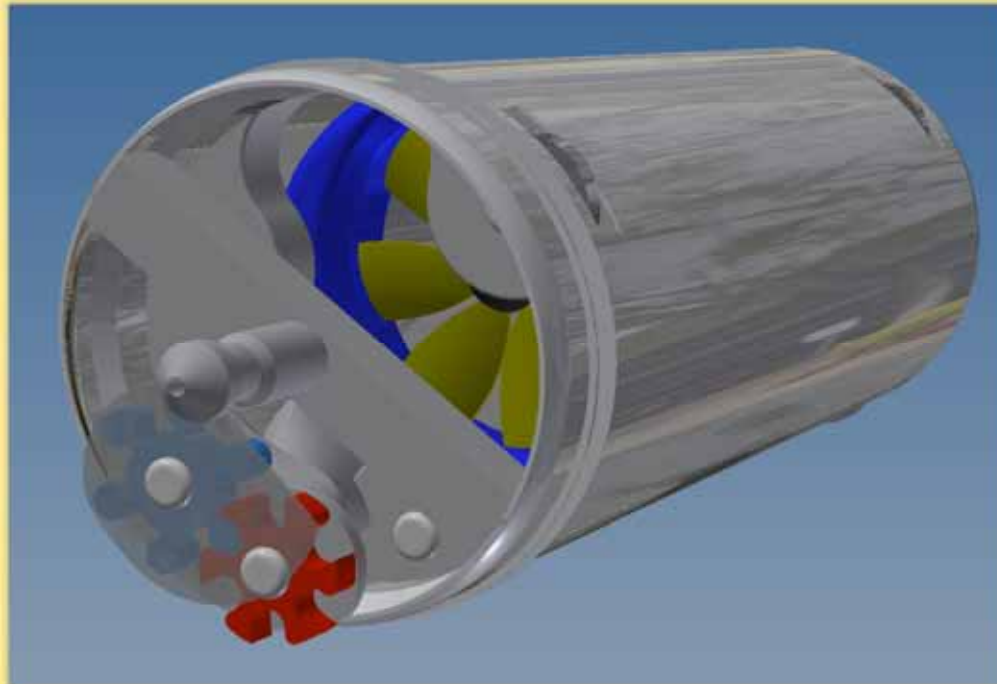




SUBSEA
SYSTEMS

DIV. BAUGH CONSULTING ENGINEERS, INC.

FERAL PIG



FREE RUNNING IN
YOUR PIPELINE

IMPELLER TAKES
POWER FROM PIPE-
LINE FLOW

SPIRALS FORWARDS
AND BACKWARDS IN
YOUR PIPELINE

CLEANS MECHANI-
CALLY, BY JETTING,
AND/OR BY HEATING

FORMS CUTTINGS IN-
TO BALLS AND RE-
LEASES THEM INTO
THE FLOW

WILL PASS 5D BENDS

THE BETA SUBSEA SYSTEMS FERAL PIG IS DESIGNED FOR
CLEANING FLOWING PIPELINES WHICH:

ARE TOO LONG FOR COILED TUBING TO REACH

NEED TO BE CLEANED WITHOUT STOPPING THE FLOW

NEED TO BE CONTINUALLY CLEANED BETWEEN TWO TRIP POINTS
WITHOUT OPERATOR ACTIONS REQUIRED

Beta Subsea Systems offers a combination of patent licensing, engineering, manufacturing capabilities, and products to assist you grow your business.

Primary Contacts: Benton F. Baugh, Ph.D., P.E., 713-419-8683, bbaugh@baughengrs.com
James R. Crawford, 337-344-0289, jimbobcrawford@gmail.com

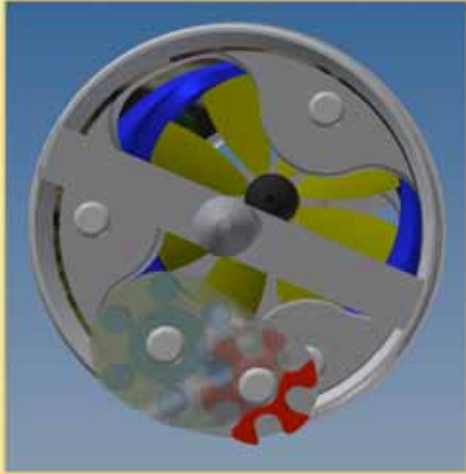
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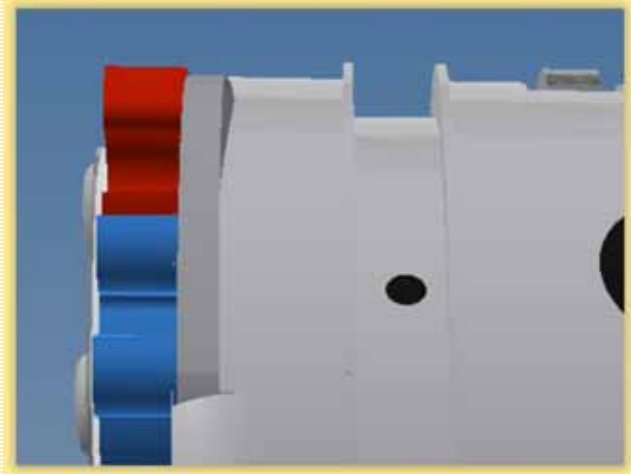
SUBSEA SYSTEMS

FERAL PIG

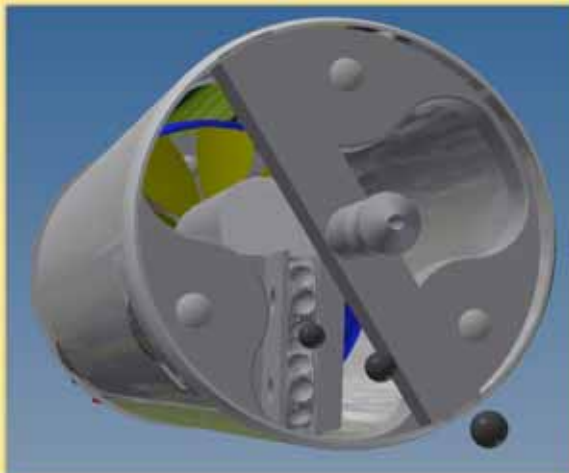
DIV. BAUGH CONSULTING ENGINEERS, INC.



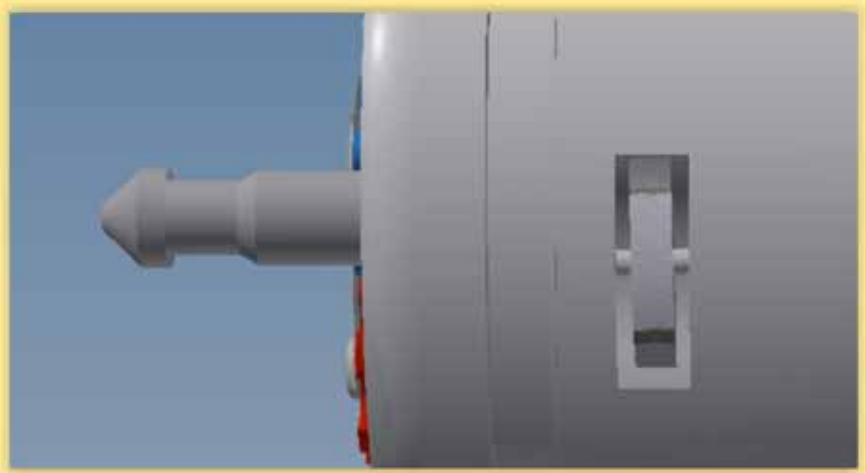
TUNGSTEN CARBIDE CUTTER REMOVES WAX AND THEN COMPRESSOR WHEEL PUSHES IT INTO INTERNAL TUBE



GROOVE IS PROVIDED JETTING AND FOR HEATED FLUID TO BE CIRCULATED TO MELT RESIDUAL WAX FROM THE PIPELINE WALL



INTERNAL "BALLER" FORMS THE WAX INTO BALLS FOR RELEASE, AS THE LEAST LIKELY FORM TO RE-STICK TO A WALL



BETA LATCH PROFILE ON BOTH ENDS FOR RECOVERY

SPRING LOADED DRIVE WHEELS ARE SLIGHTLY ANGLED TO DRIVE PIG ON A SPIRALING PATH

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PAT. PENDING