



Advanced Manufacturing Engineering Technologies

ADVANCED OVERLAY CLADDING SOLUTIONS CONVENTIONAL OR ADVANCED COORDINATED-MOTION SYSTEMS

INTERSECTING BORE CAPABILITY
INCLUDING OFF-ANGLE / OFF-CENTER

STANDARD and NON-CIRCULAR BORES
INCLUDING RACETRACK, OVAL, & SQUARE BORES WITH RADIUS CORNERS

PRECISION HOT WIRE FEED

CUSTOM CAMERA SOLUTIONS

COMPLETELY INTEGRATED SYSTEMS



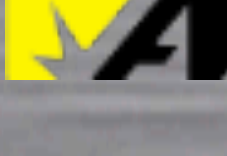
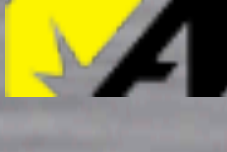
XPro Coordinated Motion Solutions

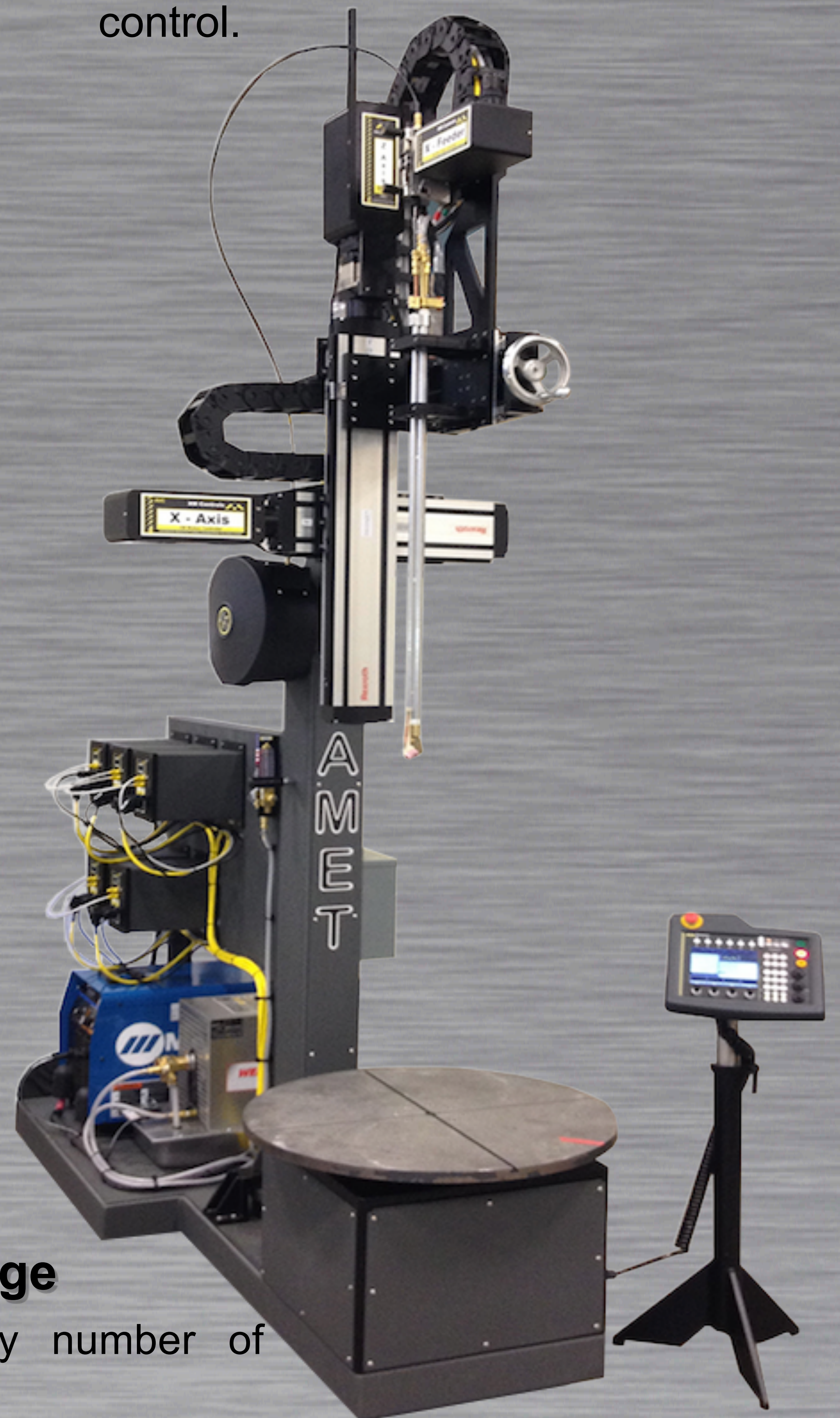
AMET's XPro System provides Combined Motion Control (CMC) for powerful bore cladding solutions. These systems utilize the latest motion control technology and User Interface necessary for complex cladding applications.

-  Elegant, simplified solutions to complex bore clad applications.
-  Industry proven AMET control systems.
-  Automatic torch centering, CMC Series
-  The XPro CMC Series has precision rotation of the Column and Boom combined with a Continuous Rotating Weld Head to provide "tableless" solutions.
-  Precision harmonic drives for head rotation to ensure accurate and rigid position performance and velocity control.

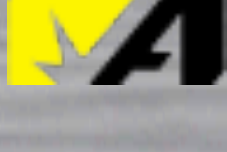
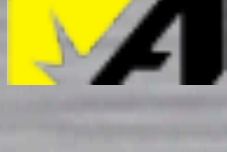
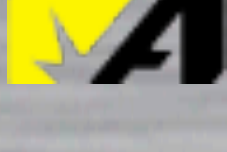
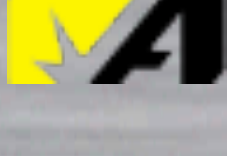
Conventional XM Cladding Solutions

AMET's Conventional Series Cladding Systems economically provide advanced powerful bore cladding solutions for everyday production cladding operations. These systems utilize AMET's highly evolved motion control systems.

-  All programming in an easy to understand plain language interface. Available in multiple languages as well as metric or english units.
-  Industry proven AMET® XM Control interface
-  Precision Column & Boom
-  Precision Turn Tables with Harmonic Drive Rotation and Continuous Rotating Weld Ground
-  Options for intersecting bores and "Vectored" AVC
-  Available with Hot Wire or Cold Wire deposition systems



The AMET® Advantage

-  Software options support any number of intersecting bores.
-  Coordinated motion for seal welds, non-circular welds, using "Vectored" AVC.
-  Precision Hotwire Supply with Remote Voltage Sensing to Control at the Contact Tip.
-  Custom Camera Solutions configured to suit a variety of different torch arrangements and work space requirements.
-  Precision Harmonic Drive Turntables and Ball-Screw Slides and Manipulators for accurate, repeatable, position and Velocity Control.
-  Advanced Programming for Weld Current Pulsation and Slope In/Out for Ideal Pool Control with Minimal Dilution
-  Advanced Touch Start or High Frequency Arc Starting.
-  Precision AVC for smooth, accurate arc length control.
-  Optional Tapered Bore, Off-Axis and Off-Centered Bore Capability.

