

AMI AXXIS® COUPLERS

AXXIS®

TR TILTROTATOR

TC TILT COUPLER

RC ROTATING COUPLER



www.amiattachments.com



A NEW SPIN ON TILTROTATORS

TILTROTATOR

AXXIS® TR

±50° TILT 360° ROTATION 0 CYLINDERS

Offering the largest tilt range available and the most compact design in the industry, the AMI AXXIS® Tiltrotator, puts a new spin on productivity. The AXXIS® Tiltrotator provides unparalleled dexterity for bucket movement that increases jobsite production with less machine repositioning and less support staff required.

Combining 360° rotation with 100° tilt range, the AXXIS® TR gives operators the ability to dig, shape and grade with precision, agility and speed.



CONSTRUCTION



LANDSCAPING



UTILITIES



HIGHWAY



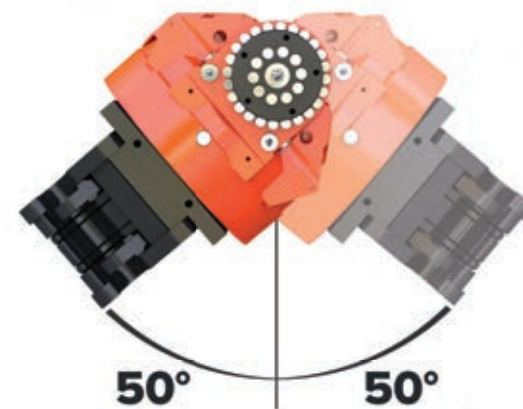
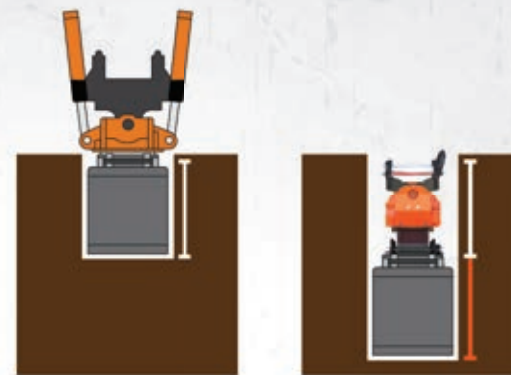
RAIL



COMMUNICATIONS

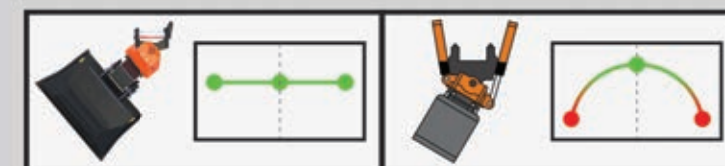
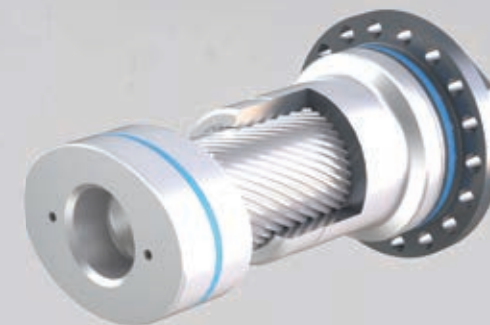
NO CYLINDERS. NO PROBLEMS.

Instead of tilting with cylinders, the AXXIS® TR features a helical actuator. This fully enclosed system eliminates exposed cylinders that are at risk of being damaged. The compact design also reduces the width of the tiltrotator, allowing it to dig narrower trenches without obstruction.



±50° TILTING

Work all the angles with the industries' widest tilting range available, up to 50-degrees in both directions.



Consistent torque across tilt range.

Torque loss at stroke ends.

HOLDING TORQUE

Inside the helical actuator are a series of splined shafts which deliver consistent and strong holding torque across the entire tilt range. Compared to cylinders, which diminish in torque at the ends of the stroke, the AXXIS® TR maintains holding torque at any angle.



OVERSIZE WORM GEAR

- High torque output in a compact diameter
- Low-maintenance worm / Oil Bath Lubrication
- Optional high-flow swivel available



CAST IRON HOUSING

- For maximum structural strength
- Compact low-build housing geometry
- Routing and integrating hydraulics within the housing structure



PROPORTIONAL VALVES

- Precise and smooth hydraulic control
- Fast response times for better operator feel

NOXPROP+

PROPORTIONAL CONTROL SYSTEM

Operate with precision using proportional control on both the tilt and rotate functions of the AXXIS® TR. The NOXprop+ proportional control system features a large and bright touch display for easy set-up and active monitoring of precise bucket position. The NOXprop+ system only requires a single one-way hydraulic circuit, yet achieves proportional control on all functions.



TOUCH DISPLAY

The rugged-built display illuminates for all-day visibility and mounts using an adjustable arm for ergonomic positioning.

BUCKET POSITION INDICATOR

Visually see the degree of tilt and rotation of your attachment at all times.

AUTO CALIBRATION

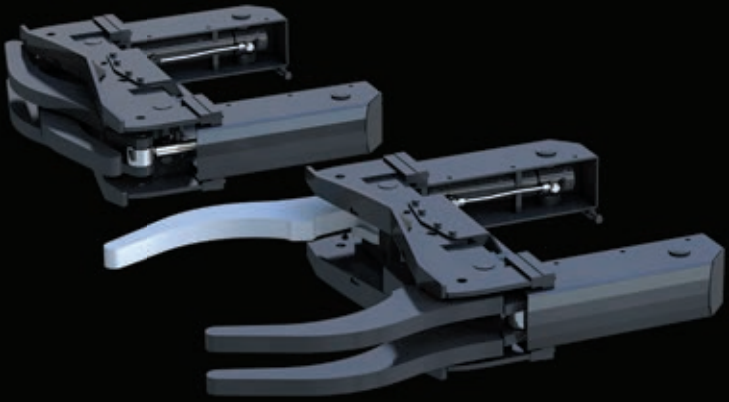
Easily recalibrate tilt and rotation positioning.

ATTACHMENT PROFILES

Each attachment features its own profile for accurate positioning data.

OPTION INTEGRATED GRIPPER

For full multi-tasking, the available hydraulic gripper adds an extra set of tines for on-the-fly picking and sorting of cables, pipes and objects. Nestled below the rotate function, the hydraulic grabber is compact and out of the way when not in use.



LOWER COUPLERS



HYDRAULIC PIN GRAB



HYDRAULIC WEDGE



HYDRAULIC S-LOCK

ERGONOMIC JOYSTICKS

To support the additional controls of the tiltrotator, the AXXIS® TR includes two SVAB brand L8 ergonomic joysticks. At your control are individual proportional roller switches for careful refined movements or quick actions.

Different joystick configuration are available to match the excavator and operators needs.



GPS COMPATIBLE

Connect the tilt and rotate functions directly to your GPS control system with the available NOXGeo upgrade.

This system is compatible with both 2D and 3D applications offered by most major GPS manufacturers, including — but not limited to — Leica, Moba, Trimble, Topcon, iDig, Unicontrol, Makin, FJ Dynamics, and CHCNAV.

Compatibility information is subject to change at any time without notice. Please verify current compatibility with your AMI dealer and AMI Attachments.

TOP MOUNTS

AXXIS® can be connected using a standard hydraulic coupler for easy removal of the tiltrotator when not required.



DIRECT



SANDWICH

SPECIFICATIONS

*Specifications depend on the machine configuration (upper lugging and lower quick coupler)

		TR045NOX	TR07NOX	TR11NOX	TR14NOX	TR19NOX	TR25NOX
Tilt Angle	°	2 x 45°	2 x 50°	2 x 50°	2 x 50°	2 x 50°	2 x 50°
Operating Weight	lbs	2.5-4.5 t / 5,500-9,900 lbs	4-7 t / 8,800-15,400 lbs	6-11 t / 13,200-24,200 lbs	10-13 t / 22,000-28,700 lbs	13-19 t / 28,700-41,800 lbs	19-24 t / 53,000-55,000 lbs
Weight* (Incl. Lugging & Coupler)	lbs	330	440	704	1,067	1,276	1,892
Tilt Torque²	kNm	6.5	11	16	31	40.5	51.7
Rotational Speed	lpm	8.5 @ 20	8.5 @ 32	8.5 @ 40	8.5 @ 45	8.5 @ 50	8.5 @ 60
Rotational Torque	kNm	3.8 @ 360° continuous	4.7 @ 360° continuous	7.5 @ 360° continuous	11 @ 360° continuous	12 @ 360° continuous	15 @ 360° continuous
Max. Breakout Force	kN	40	50	75	110	150	170
Max. Hydraulic Pressure	MPa	21	25	27	30	30	30
Tilt Flow	lpm	11	20	26	45	51	67
Rotate Flow	lpm	19	29	41	45	50	60
Extra Function #1 MAX. Flow	lpm	SD 70 HF -	SD 70 HF -	SD 70 HF -	SD 70 HF 70	SD 70 HF 70	SD 70 HF 70
Extra Function #2 MAX. Flow	lpm	SD 30 HF -	SD 30 HF -	SD 30 HF -	SD 30 HF 120	SD 30 HF 120	SD 30 HF 150
Total Required Flow		Total Sum of Instantaneous Flow Demands		Total Sum of Instantaneous Flow Demands		Total Sum of Instantaneous Flow Demands	
Electrical Swivel		Optional		Optional		Optional	

ROTATING COUPLER

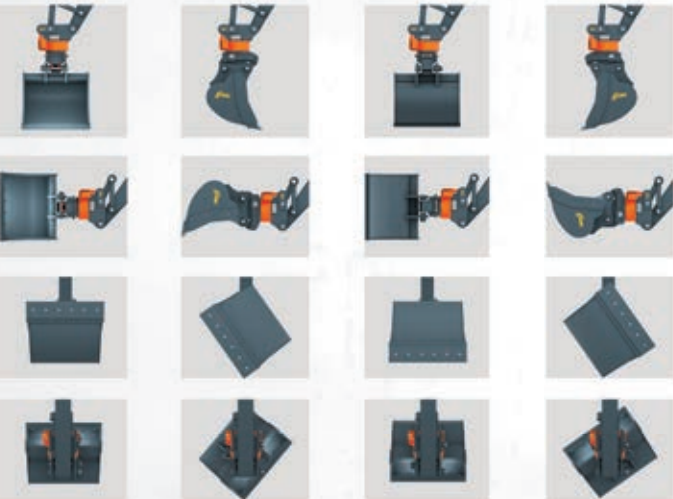
AXXIS RC

USEFUL RANGE OF MOTION. COST EFFECTIVE PRODUCTIVITY.

By utilizing the curl cylinder of your excavator along with the 360° rotation of the AXXIS® RC coupler, operators are able to maneuver attachments into the most beneficial positions offered by a tiltrotator. This includes grading at a 45-degree angle.

ACHIEVE 80% RANGE OF MOTION OF A TILTROTATOR

The AXXIS® RC increases the dexterity of your excavator with 80% of the range of motion of a tiltrotator - and at a fraction of the cost.



SPECIFICATIONS

MODEL	Operating Weight (lbs)	Max Breakout Force (lbf)	*Self Weight Rotary Unit Only (lbs)	Rec. Oil Flow Rotary Motor (gpm)	Max Pressure Rotary Motor (psi)	Max Oil Flow Lower Aux. Ports (gpm)	Max pressure Aux ports (psi)
RC02	1,984 - 5,732	6,295	66	0.8 - 1.1	2,466	13.2	3,625
RC04	5,512 - 8,377	7,194	66	1.6 - 4.2	2,466	18.5	3,625
RC06	8,377 - 13,2328	9,666	172	4.8 - 6.9	3,626	26.4	4,061
RC10	13,228 - 22,046	16,861	216	7.9 - 10.6	3,626	39.6	5,076
RC19	30,865 - 41,888	33,721	659	10.6 - 13.2	3,626	66	5,801
RC25	41,888 - 55,116	38,218	893	13.2 - 15.9	3,626	92.5	5,801
RC33	55,116 - 72,752	46,096	935	15.9 - 21.1	3,626	93	5,801



360° ROTATION



HYDRAULIC PORTS



CASE DRAIN LINE



ADAPTIVE LOWER COUPLER

HIGH FLOW SWIVEL FOR MAX OIL FLOW FOR ATTACHMENTS
E.G. BREAKER, MULCHER, COMPACTOR, GRAPPLE

TILT COUPLER

AXXIS TC

PRODUCTIVITY & PROTECTION AT EVERY ANGLE

With the AMI AXXIS® TC, you can now perform work on the job site faster, safer and easier by positioning your bucket, not your machine. Featuring versatile bucket positioning up to 180°, the AMI AXXIS® TC features exclusive sliding spline technology and front and rear safety locks. Operated entirely from the cab, the AXXIS® TC also features a safe release curl to open, variable pin center design and fast and easy connection and disconnection of your attachments - improving your overall productivity.

UP TO 180° TILT RANGE

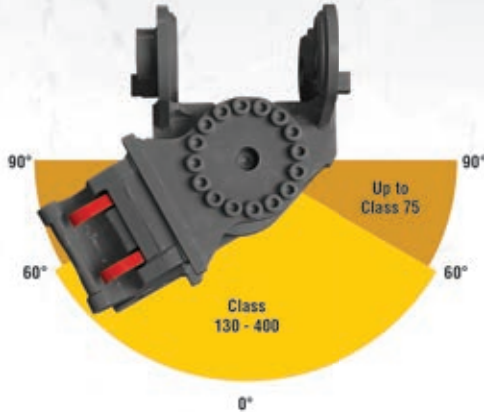
Instead of moving your entire machine, the AXXIS® TC allows bucket or attachment tilting up to 180°.

IMPROVED HOLDING FORCE

Lock on and go! With a dual pin locking system, the AXXIS® TC allows for improved holding force and increased safety.

REDUCED WEIGHT

Because the AXXIS® TC weighs less, you can achieve greater stability and improved fuel savings.



INTEGRATED CROSS-PORT RELIEF VALVE

The cross-port relief valve on the AXXIS® TC offers hydraulic overload protection.

AXXIS® TC CONFIGURATIONS:



Power Tilt Mechanical Wedge Coupler



Power Tilt Hydraulic Wedge Coupler



Power Tilt Mechanical Pin Grab Coupler



Power Tilt Hydraulic Pin Grab Coupler



SPECIFICATIONS

Category	Machine Operating Weight (lbs)	Part Number
25	3,000 - 6,000	PT0306PP
35	6,000 - 10,000	PT0610PP
50	10,000 - 12,000	PT1012PP
60	12,000 - 14,000	PT1214PP
75	14,000 - 24,000	PT1416PGH
130	24,000 - 33,000	PT2433PGH
150	33,000 - 45,000	PT3340PGH
200	45,000 - 55,000	PT4045PGH



ATTACHMENTS



Graptor® Bucket
Powered By RAMCAM®



Tilt Bucket
Powered By RAMCAM®



Non-Rotating
Sorting & Demolition Grapple



Jawbone Bucket



Cable Bucket



Tiltrotator Style Ditching
Bucket



Heavy Duty Digging
Bucket



Non-Rotating Multi-Purpose
Grapple



Fork Rack



Grading Beam

Authorized Dealer



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