

HAT-500

Hydraulic Adhesion Tester



AIRBLAST



The HAT-500 is a reliable method of testing the adhesion bond strength of a dry coating onto the substrate to which it is applied.

Correct adhesion is critical in ensuring that a paint system will perform as intended by the manufacturer. Insufficient adhesion can indicate incorrect substrate preparation or paint application.

To measure the adhesion a dolly is glued onto the painted substrate, a force is applied onto the center of the dolly by a hydraulically loaded pin, the maximum force applied is recorded on the pressure gauge by the reset needle. Should the dolly meet the minimum adhesion required it can be removed without disturbing the coating by using the heated dolly remover. Should the pressure overcome the adhesion of the dolly onto the surface the pressure will be recorded on the gauge. Dollies can be glued in place and left indefinitely as part of a scheduled maintenance programme.

The pressure gauge is swivel mounted to allow testing in any position and the flexible mid-section allows easy access. Adhesion on the internal and external surfaces of pipes can be tested using curved dollies.

The HAT-500 is supplied in a hard plastic foam filled carry case complete with 5 flat dollies, adhesive, dolly remover.

Complies with International Standards: ISO 16276-1, ISO 4624, ASTM D 4541, NF T30-606.

HAT-500 HYDRAULIC ADHESION TESTER SPECIFICATIONS

Part no.	Head Type	Operation Range PSI	Operation Range MPa	Accuracy	Cal Cert Part no.
7865000	HAT-500 - Standard	0-2600 PSI	0-18	±1%	7865005
7865001	HAT-500 - Right Angle	0-2600 PSI	0-18	±1%	7865005

ACCESSORIES

Part no.	Description	Pipe Size Metric	Pipe Size Imperial	Use with HAT-500 model	Information
7865020	HAT-500 Concave Dolly	51mm	2"	7865000 / 7865001	For external pipe testing
7865021	HAT-500 Concave Dolly	76mm	3"	7865000 / 7865001	
7865022	HAT-500 Concave Dolly	102mm	4"	7865000 / 7865001	
7865023	HAT-500 Concave Dolly	152mm	6"	7865000 / 7865001	
7865024	HAT-500 Concave Dolly	203mm	8"	7865000 / 7865001	
7865025	HAT-500 Concave Dolly	254mm	10"	7865000 / 7865001	
7865026	HAT-500 Concave Dolly	305mm	12"	7865000 / 7865001	
7865027	HAT-500 Concave Dolly	356mm	14"	7865000 / 7865001	
7865028	HAT-500 Concave Dolly	406mm	16"	7865000 / 7865001	
7865029	HAT-500 Concave Dolly	457mm	18"	7865000 / 7865001	
7865030	HAT-500 Concave Dolly	508mm	20"	7865000 / 7865001	
7865031	HAT-500 Concave Dolly	610mm	24"	7865000 / 7865001	
7865032	HAT-500 Concave Dolly	762mm	30"	7865000 / 7865001	
7865033	HAT-500 Concave Dolly	914mm	36"	7865000 / 7865001	
7865034	HAT-500 Convex Dolly	152mm	6"	7865001	For internal pipe testing
7865035	HAT-500 Convex Dolly	203mm	8"	7865001	
7865036	HAT-500 Convex Dolly	254mm	10"	7865001	
7865037	HAT-500 Convex Dolly	305mm	12"	7865000 / 7865001	
7865038	HAT-500 Convex Dolly	356mm	14"	7865000 / 7865001	
7865039	HAT-500 Convex Dolly	406mm	16"	7865000 / 7865001	
7865040	HAT-500 Convex Dolly	457mm	18"	7865000 / 7865001	
7865041	HAT-500 Convex Dolly	508mm	20"	7865000 / 7865001	
7865042	HAT-500 Convex Dolly	610mm	24"	7865000 / 7865001	
7865043	HAT-500 Convex Dolly	762mm	30"	7865000 / 7865001	
7865044	HAT-500 Convex Dolly	914mm	36"	7865000 / 7865001	
7865045	HAT-500 Flat Dolly			7865000 / 7865001	For substrate testing

SPARE PARTS

Part no.	Description
7865046	Adhesive
7865047	Spare dolly plug
7865048	Heated dolly remover

Related Literature

LT9000E	AIE Airblast Inspection Equipment - The Guide
LT9520E	Data Sheet - CHC-520 Cross Hatch Cutter
MN9440E	Instruction Manual - HAT-500 Hydraulic Adhesion Testerr
MN9440E	Instruction Manual - CHC-520 Cross Hatch Cutter