

Tightening Milling Machine Cutting Teeth on Cutting Drum



Overview: The basic components of a milling machine are a cutting drum to mill the existing pavement, a vacuum to collect the milled particles and a conveyance system to transport the milled particles to a dump truck for hauling. The cutting teeth shown in the image above are bolted to a roller assembly designed to penetrate a road surface.

During maintenance it may be necessary to loosen the retaining bolt and rotate the tooth within its housings; this is done to ensure the surface of the tooth is seeing even wear around its profile. In some cases, the tooth may require replacement due to being damaged or excessively worn. The time taken to perform these actions must be kept to a minimum and the tools used to carry out the work need to be reliable and efficient. If the teeth are not properly maintained the performance of the machine will suffer greatly. Not only will the production rate of the machine suffer, but it will also burn more fuel.

Solution: In order to complete the required work involving replacing the cutting teeth the tool was pre-configured to effortlessly undo each retaining bolt. When EvoTorque® is set to anti-clockwise/reverse mode for loosening operations, the tool can be configured to deliver its maximum power to break free the fastener. During the maintenance period, each tooth is checked over, as is the condition of the housings and threads. If required replacement teeth are used and secured into place via the retaining bolt, which is positioned 90° to the tooth itself; as illustrated in the image above. During installation EvoTorque® provided precise torque output to ensure each tooth was correctly installed. It was agreed that the standard cranked reaction plate supplied with the tool was perfectly suitable for all loosening and tightening operations.

Application

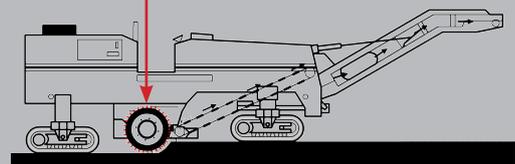
Precisely tighten teeth used to remove top surfaces of pathed roads or walkways

Solution

Norbar EvoTorque®2 1350 N·m electronic torque multiplier 110v



Cutting teeth on roller



Within our family of distributors we share applications and can often recommend solutions that have been tried and tested elsewhere.

