

**INSTRUCTION FOR THE NORBAR HANDTORQUE[®]
HT3 MULTIPLIER**

**BEDIENUNGSANLEITUNG FÜR NORBAR
DREHMOMENTVERVIELFÄLTIGER[®] HT3**



INTRODUCTION

The HandTorque® HT3 is a precision tool which multiplies the input torque by a factor of five (5).

Part Number	Input Square	Output Square	Max Input	Max Output
17220	1/2"	3/4"	260 N·m (190 lbf·ft)	1300 N·m (960 lbf·ft)
17221	3/4"	1"	540 N·m (400 lbf·ft)	2700 N·m (2000 lbf·ft)

REACTION

1. Select correct socket drive: it is recommended to use power drive sockets.
2. In use the tool body rotates in the opposite direction to applied drive. It is necessary to allow the torque reaction arm to rest against a solid stop before any useful work can be done.
3. To prevent undue stress on the gears always take torque reaction as far away from drive square as circumstances permit.
4. An extension driver up to 9" (250 mm) long may be used but ensure that:
 - Output torque does not exceed 1000 N·m (750 lbf·ft)
 - Reaction forces are taken at the end of the reaction arm/bar.



DRIVING TOOL

1. For torque control and even bolt loading a torque wrench is required.
2. Set torque wrench to one fifth of the desired torque on the nut. Do not exceed maximum input torque.

IMPORTANT: DO NOT USE THE MULTIPLIER WITH IMPACT OR IMPULSE WRENCHES.

