

Agricultural Tractor Tire Dynamic Indices—SAE J1261 FEB79

SAE Information Report
Approved February 1979

S.A.E.
LIBRARY

THIS IS A PREPRINT WHICH IS
SUBJECT TO REVISIONS AND
CORRECTIONS. THE FINAL
VERSION WILL APPEAR IN THE
1981 EDITION OF THE SAE
HANDBOOK.

Society of Automotive Engineers, Inc.

400 COMMONWEALTH DRIVE, WARRENDALE, PA. 15096



PREPRINT

SAENORM.COM : Click to view the full PDF of J1261_197902

AGRICULTURAL TRACTOR TIRE DYNAMIC INDICES—SAE J1261 FEB79

SAE Information Report

Report of the Agricultural Tractor Technical Committee, approved February 1979. Rationale statement available.

1. Purpose and Scope—The purpose of this information report is to establish dynamic indices which are to be used only for calculating the travel speed of the agricultural machine during worldwide homologation procedures.

2. General Principles

2.1 The dynamic index values are for R-1 type tires inflated to the recommended inflation pressures as shown in SAE Standard J709d (Tables 1, 2, and 3), or furnished by Tire and Rim Association, but under a load 50% of maximum load capacity of the respective tire size, inflation pressure, and construction at 32 km/h (20 mph) travel speed.

2.2 Dynamic index should not be used or converted into an effective measurable value.

3. Definitions

3.1 Dynamic index is the value when multiplied by 2π that indicates the theoretical distance the tire would have traveled without slip in one revolution.

3.2 Bias-ply tire construction: Construction of the tire in which the cords of the body plies run diagonally from bead to bead.

3.3 Radial ply tire construction: Construction of the tire in which the cords of the body plies run radially from bead to bead.

3.4 The maximum dynamic index is based on new tire dimensions with maximum in-service growth included.

SAENORM.COM : Click to view the full PDF of J1261_197902