

## Double-ended ring spanners, imperial

### 230a



Product no.	41614648
GTIN	4018754139484
Model	230a 15/16 x 1



#### Label.

Double-ended ring spanner Size 15/16 x 1 L.340mm

#### Properties.

- **imperial, differing** end sizes
- flat cranked
- bi-hex with AS-Drive profile
- durable, slim and lightweight design
- high flexural strength due to double-T profile
- STAHLWILLE's rounded finish ensures a non-slip, pleasant feel
- HPQ® high performance steel, chrome-plated
- SAE AS 954 (dimensions and test values) / Fed. spec. GGG-W-636 E / S.B.A.C. Techn. spec. T.S. 48 to 1/2"

## Benefits.

High-quality double-ended ring spanner, flat cranked for optimum access in confined spaces, with imperial size.

The bi-hex AS-Drive profile protects screws and nuts because the force is applied specifically to the flanks - not the edges.

Made from robust HPQ® high performance steel and additionally chrome-plated for high durability, reliable corrosion protection and enormous wear resistance.

A special manufacturing process enables thin-walled rings - slim for use in confined areas and at the same time robust enough for high loads.

The distinctive STAHLWILLE rounded finish gives the combination spanner a non-slip and comfortable feel for safe working, even with oily hands.

## Product highlights.



PRODUCT IMAGE  
IN PROGRESS

### **For confined areas with low headroom.**

The flat cranked double-ended ring spanner comes into its own when screw connections are located close to housings, covers or adjacent components. Whether on aggregates, inside machines or during maintenance work under panelling: the flat cranked keeps the spanner close to the surface and reduces collisions with surrounding components - with full spanner length for sufficient leverage and controlled, powerful working even with limited headroom.



PRODUCT IMAGE  
IN PROGRESS

### **Optimum power transmission.**

Each spanner guarantees consistently excellent quality thanks to minimal manufacturing tolerances and high reproducible precision. The jaw and ring always fit securely on the screw, ensuring optimum power transmission.



PRODUCT IMAGE  
IN PROGRESS

### **Non-slip surface.**

STAHLWILLE spanners feature a high-quality, non-slip surface texture that enables safe working even with oily hands. The non-slip texture increases control during handling.



PRODUCT IMAGE  
IN PROGRESS

### **Solid, stable, durable.**

Made from solid, extremely durable HPQ® high performance steel, the spanner offers high stability and resilience even in continuous use - no deformation, no warping, even when used vigorously. It is also chrome-plated for corrosion resistance.

## Technologies and features.



### **Double-T profile**

Our ring, open-ended and combination spanners have an additional recess in the middle of the tool. Similar to the principle of a double-T beam, this provides a tremendous load capacity and maximum strength whilst reducing weight.



### Anti-Slip-Drive

The special AS-Drive profile makes high force transmission to the flats of bolts and nuts possible without damaging them. This also prevents stripping of the screw head.



### High Performance Quality (HPQ®)

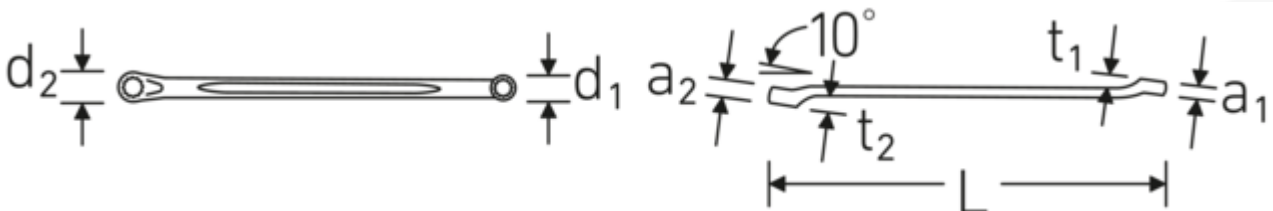
Our HPQ® tool is made of wear-resistant high-performance steel, yet is thin-walled and lightweight. It withstands high torques and is ideal for work in confined spaces such as turbines.



### Thin-walled rings

The thin-walled diameter of our rings makes it easier to work in confined spaces. The ring wall is deeper than standard nuts, which prevents jamming.

## Technical drawing.



## Technical attributes.

Size 1 [inch]	15/16 "
Size 2 [inch]	1 "
Length mm (L)	340 mm
a1	14,5 mm
a2	15 mm
Drive profile	bi-hex AS-Drive
d1	34,1 mm
d2	36,5 mm
Alloy	HPQ® high performance steel

## Logistics data.

Product no.	41614648
GTIN	4018754139484
Weight (g)	375 g
Volume (packaged, dm <sup>3</sup> )	2.7 dm <sup>3</sup>
Packing standard	5
WEEE/ElektroG	nicht ear-pflichtig
Customs tariff no.	82041100
Country of origin AWR	GERMANY
Region of origin	Nordrhein-Westfalen
Depth mm (IFS)	350

<b>Surface</b>	chrome-plated	<b>Width mm (IFS)</b>	35
<b>t1</b>	22 mm	<b>Height mm (IFS)</b>	23
<b>t2</b>	23 mm	<b>Weight (gross, kg)</b>	1,940
<b>Ring position</b>	10 °	<b>Weight PAP (kg)</b>	0,000
		<b>Weight PVC (kg)</b>	0,017
		<b>Length (packaged, mm)</b>	360
		<b>Width (packaged, mm)</b>	150
		<b>Height (packaging, mm)</b>	50

## GTIN.



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