

ITH PDS: Pneumatic Nut Runner



Features:

1. **Compact, high-performance planetary gearbox**
2. **Air-powered motor**
3. **4-step rotary-switch** for preselection of torque
4. **Directional switch** (tighten / loosen)
5. **Impact-resistant and anti-slip pistol grip**
6. **Air high-pressure coupling**
7. **On/Off Trigger**
8. **Fine-tooth reaction arm.**
Optional: TWIN-Reaction arm, swivel foot, customized solutions available
9. **Interchangeable sockets available,** secured with clip

PDS with optional change gear: rotary switch is positioned at the gear box.

Functions

- ✓ **No electric power supplies required.** Pneumatic Motor can be power by standard air compressors.
- ✓ **Special version suitable for jobs in explosion-risk areas:** On demand the ITH PDS can be covered with a coating on the gearbox and reaction arm - ideal for applications in the oil and gas industry.
- ✓ The required torque is set via the **compressed air precision control valve** at idling according to the tabular data.
- ✓ **The change gear** (high and low gear) enables a higher range of rotational speed (optional) and faster work.
- ✓ **Independent rotation between handle and gearbox** ensures steady and optimal positioning of the ITH PDS.



Compressed air precision control valve:
(included in delivery)
ITH-Order no.: 74.08450-7000



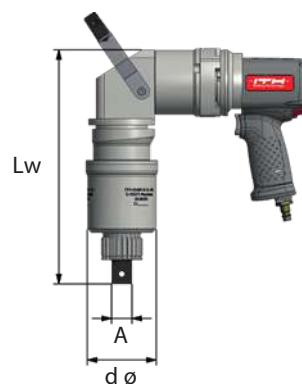
Practical transport case:
PDS 25 – PDS 250: Hard plastic case,
ITH-Order-no. 80.00911
PDS 400 – PDS 1400: Steel case,
ITH-Order-no. 80.00900

Designs of the PDS

PDS



PDSw



ITH-Type	ITH order no.	Max. Torque		Output drive A	Gearbox diameter d ø		PDS, straight**				PDSw, angle **			
							Length L		Weight		Length L		Weight	
		[Nm]	[ft-lb]		[mm]	["]	[mm]	["]	[kg]	[lb]	[mm]	["]	[kg]	[lb]
PDS-25	2x.y0025	250	184	3/4	83	3.27	246	9.69	2.9	6.39	216	8.50	4.7	10.36
PDS-40	2x.y0040	400	295	3/4	83	3.27	271	10.67	3.8	8.38	238	9.37	5.2	11.46
PDS-75	2x.y0075	750	553	3/4	83	3.27	283	11.14	4.2	9.26	259	10.20	5.7	12.57
PDS-150	2x.y0150	1,500	1,106	1	90	3.54	307	12.09	4.5	9.92	280	11.02	6.8	14.99
PDS-250	2x.y0250	2,500	1,844	1	90	3.54	334	13.15	6.5	14.33	305	12.01	7.9	17.42
PDS-400	2x.y0400	4,000	2,950	1 1/2	95	3.74	372	14.65	7.9	17.42	338	13.31	9.1	20.06
PDS-600	2x.y0600	6,000	4,425	1 1/2	105	4.13	394	15.51	13.5	29.76	371	14.61	14.7	32.41
PDS-800	2x.y0800	8,000	5,900	1 1/2	127	5.00	447	17.60	16.8	37.04	417	16.42	21.0	46.30
PDS-1000	2x.y1000	10,000	7,376	1 1/2	127	5.00	447	17.60	16.8	37.04	417	16.42	22.2	48.94
PDS-1400	2x.y1400	14,000	10,326	2 1/2	180	7.09	503	19.80	42	92.59	480	18.90	27	59.52

PDS, straight:
PDSw, angle:

x = 6
x = 7

With change gear:
Without change gear:

y = 0
y = 1

**Without change gear

Application: Designed for both first-installation and service jobs



This clutch bolt connection M36 (13/8") of a tractor unit is tightened with a PDS 250.



Customer specific supports (reaction arms) can be delivered for all ITH Nut Runners. This conical support was used to tighten the bolts of a waste incineration machine with a ITH PDS 250.