CYLINDERS

FROM 2 TO 1220 TONS!

SUPERIOR FEATURES OF POWER TEAM HYDRAULIC CYLINDERS:

We build our own cylinders in our ISO 9001 registered manufacturing facilities. All Power Team cylinders are date coded and stamped with a maximum pressure rating and capacity. Each cylinder we make complies with the demanding ASME B30.1 standard and are assembled/tested by certified assemblers and pressure tested to 125% of capacity before leaving our factories. Some other key features included:

- Cylinder bores are roller burnished to harden and smooth the surface, improving seal life by 30%.
- Base mounting holes withstand full cylinder capacity.
- Typical cylinder burst pressure range is from 25,000 to 35,000 psi, well-beyond extreme usage.
- Cylinders with gland nuts may be "dead-ended" at 10,000 psi.
- Eddy current and mag-particle inspections detect flaws in the steel.
- Material is removed from surface to ensure that any flaws are eliminated.

POWERTHON™ LIFETIME WARRANTY

ISO 9001 CERTIFIED

Page Description	Cylinder Movement	Type of Return	Tonnage Range	Page(s)
Introduction	-	-	-	5-10
C	Single-Acting	Spring	5-100	11-12
CBT	Single-Acting	Spring	5-25	13
RP	Single-Acting	Spring	2-5	14
C Accessories	-	-	-	5-16
RA	Single-Acting	Spring	20-100	17
RLS	Single-Acting	Spring	5-150	18
RSS	Single-Acting Double-Acting	Spring	10-250	19-20
RH	Single-Acting Double-Acting	Spring Hydraulic	100-100 30-200	21-22
RT	Single-Acting	Spring	17.5-100	23-24
RGG	Single-Acting	Load	55-600	25-28
RDG	Double-Acting	Hydraulic	55-600	29-32
RD	Double-Acting	Hydraulic	10-500	33-34
R	Single-Acting Double-Acting	Spring Hydraulic	55-565 100-565	35-36
RC_C RC_D	Single-Acting Double-Acting	Load Hydraulic	740-1220 740-1220	37-38
RA_L R_L	Single-Acting, Locking	Load	55-100 55-565	39-40
RC_P	Single-Acting, Locking	Load	55-620	41
RC_L Series	Single-Acting, Locking	Load	740-1220	42

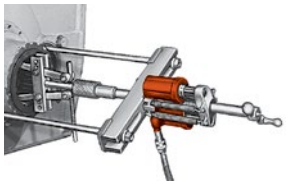
Model Shown:
RT302, RT1004

Features

IDEAL FOR PULLING AND PRESSING APPLICATION, REQUIRING HIGHER FORCES.

- Cylinders withstand full “dead-end” loads.
- Compact design is ideal for applications in which space is limited.
- Basic head can be changed from a tapped hole to plain hole by simply changing the insert.
- Pistons have “Power-Tech” treatment for corrosion and abrasion resistance.
- Complies with ANSI / ASME B30.1 Safety Standards.

Center Hole Design Cylinders



RT Series pullers are equipped with a through hole design for additional applications and uses for pulling requiring high force.

Optional Plain Head Cylinder Inserts

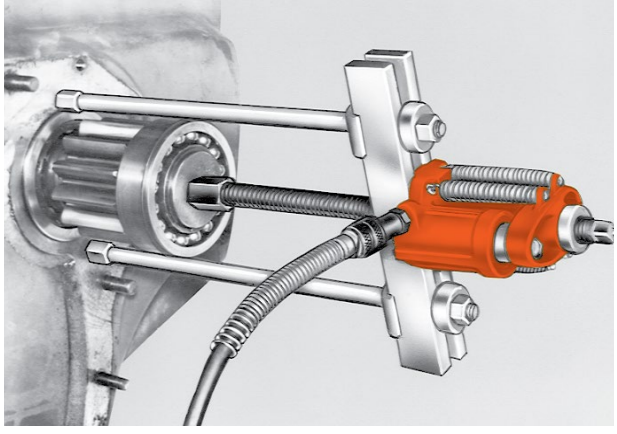
Switch from a tapped hole to a plain hole quickly with these cylinder head inserts. They are held in place with a socket screw. Plain hole permits use of a speed nut for re-adjusting cylinder after extension.

For Use With:	Threaded Order No.	Plain Order No.
RT172	21669	21714
RT302	21873	21872
RT503	22274	22275
RT1004	24197	24196

Learn More - About Hydraulic Safety Insight

Looking for great safety suggestions? Visit our Resource Section to get a better understanding of hydraulic and mechanical safety insights on what to look for when working around hydraulics.

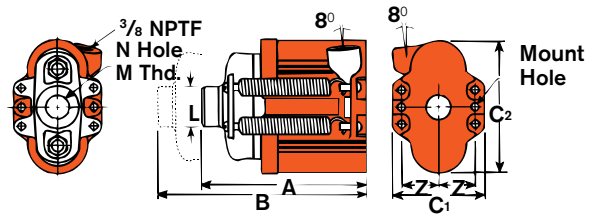
RT Series center hole cylinder is versatile for strand or pull applications



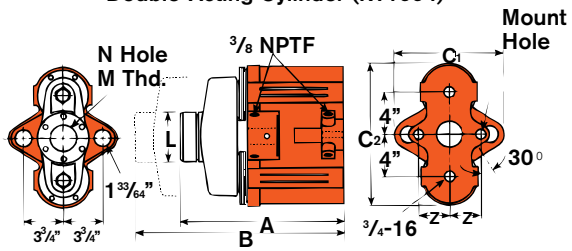
Technical Dimensions, Base Mounting Holes

Dimensions for reference only.

Single-Acting, Spring Return Cylinders



Double-Acting Cylinder (RT1004)



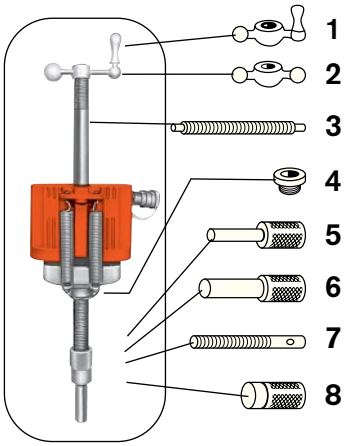
Ordering Information

Cyl. Cap. (tons)	Stroke (in.)	Order No.	Oil Cap. (cu. in.)		A Retracted Height (in.)	B Extended Height (in.)	C1 Outside Dia. (in.)	C2 Outside Dia. (in.)	L Load Cap Dia. (in.)	M Load Cap Thread (in.)	N Center Hole Dia. (in.)	Z Mount Hole Location (in.)	Mount Hole (in.)	Cylinder Effective Area (sq. in.)	Int. Press. at Cap. (psi)	Tons at 10,000 (tons)	Prod. Wt. (lbs.)
			Push	Return										Push	Push	Push	
17.5	2.00	RT172	7.06	–	6.88	8.88	3.75	5.75	1.75	1" - 8	1.03	1.50	11/32	3.53	9,915	17.70	14.60
30	2.50	RT302	15.70	–	8.44	10.94	4.25	7.50	2.25	1 1/4" - 7	1.30	1.81	15/32	6.28	9,554	31.40	28.20
50	3.00	RT503	29.40	–	10.56	13.56	5.88	9.38	2.88	1 5/8" - 5 1/2	1.67	2.38	21/32	9.81	10,193	49.10	56.00
100	4.88	RT1004*	96.50	63.20	15.13	20.00	10.50	12.25	4.75	2 1/2" - 8	2.56	2.88	25/32	19.24	10.395	96.20	160.00

* The RT1004 has a bypass when full stroke is reached, preventing over-pressurization of the cylinder.

NOTE: Each cylinder complete with threaded cylinder head insert, cylinder half coupler and cylinder attaching screws.

Accessories Ordering Information



Use with Cylinder Number	Number	RT172, RH203	RT302, RH302, RH303, RH306	RT503, RH503, RH603, RH605, RH606	RT1004
Order Set		RHA20	RHA30	RHA50	RHA100
Speed Crank	1	24814	27198	29595	303785
Speed Nut	2	302482 1"-8 thread	302483 1 1/4"-7 thread	33439 1 5/8"-5 1/2 thread	34136 2 1/2"-8 thread
Adjusting Screw	3	32118 1"-8 thd. 20" lg.	34758 1 1/4"-7 thd. 24" lg.	32698 1 5/8"-5 1/2 thd. 30" lg.	32699 2 1/2"-8 thd 34.25" lg.
Threaded Insert	4	Threaded insert supplied with RT series cylinders. Order threaded insert for RH series cylinders with the accessory set.			
Pushing Adapter	5	201923 1"-8 thread 0.5" diameter shank	34510 1 1/4"-7 thread 0.75" diameter shank	34755 1 5/8"-5 1/2 thread 1" diameter shank	—
Pushing Adapter	6	201454 1"-8 thread 0.75" diameter shank	34511 1 1/4"-7 thread 1" diameter. shank	34756 1 5/8"-5 1/2 thread 1.25" diameter shank	—
Jack Screw	7	24813 1"-8 thd. 7" lg.	25931 1 1/4"-7 thd. 9" lg.	32701 1 5/8"-5 1/2 thd. 11" lg.	32702 2 1/2"-8 thd. 16" lg.
Screw Cap	8	28228 1"-8 thd. 1.5" dia.	28229 1 1/4"-7 thd 1.75" dia.	28230 1 5/8"-5 1/2 thd, 2.25" dia.	—